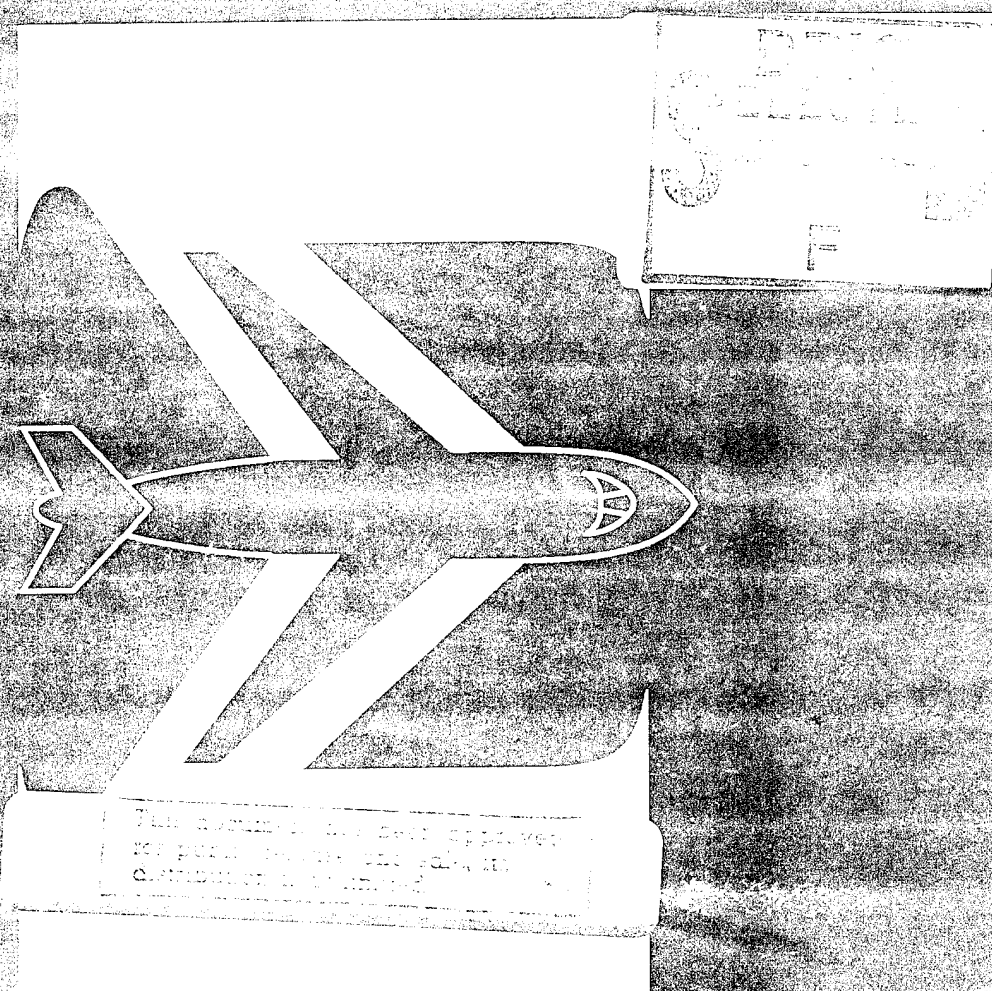




U.S. Department
of Transportation
Federal Aviation
Administration

General Aviation and Air Taxi Activity and Avionics Survey

Calendar Year 1993



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Office of Aviation Policy,
Plans and Management Analysis

FAA-APO-95-4



U.S. Department
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**Federal Aviation
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General Aviation and Air Taxi Activity and Avionics Survey

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Airport Activity Statistics of Certificated Route Air Carriers is a joint publication of the Federal Aviation Administration (FAA) and the Research & Special Programs Administration (RSPA). RSPA furnishes airport activity data on certificated route air carriers; FAA organizes/publishes it. Included in the data are passenger enplanements and tons of enplaned freight and mail. Scheduled/nonscheduled service shown by airport and carrier are also included. Breakdown of data includes departures/enplanements/cargo/mail by airport, carrier & type of operation, and type of aircraft.

Latest edition: Calendar Year 1993
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1994 information will be available: July 1993
Date next publication is scheduled: September 1995 (1994 data)
Person to contact: Patricia Beardsley

Census of U.S. Civil Aircraft is an annual publication that includes statistical data on the registered civil fleet, air carrier aircraft, and general aviation aircraft--both registered and active, detailed reports for general aviation aircraft by owner's state and county, and registered aircraft by make and model.

Latest edition: Calendar Year 1992
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1993 information will be available: September 1994
Date next publication is scheduled: November 1994 (1993 data)
Person to contact: Patricia Beardsley

FAA Air Traffic Activity furnishes terminal and en route air traffic activity information (e.g., takeoffs & landings, flight plans filed) of the National Airspace System. The data is collected/ compiled from the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations, Approach Control Facilities, and FAA-contracted towered airports.

Latest edition: Fiscal Year 1993
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1994 information will be available: March 1995
Date next publication is scheduled: July 1995 (1994 data)
Person to contact: Nancy Trembley

FAA Statistical Handbook of Aviation is a convenient source for historical data. It presents statistical information pertaining to the FAA, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft, Aircraft Accidents, and Aeronautical Production & Import/Export.

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Date next publication is scheduled: December 1994 (1993 data)
Person to contact: Patricia Beardsley

General Aviation/Air Taxi Activity & Avionics Survey is an annual report that presents the results of the general aviation/air taxi activity and avionics survey conducted to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet. The report contains estimated flying time, landings, fuel consumption, lifetime airframe hours, and engine hours of the active general aviation aircraft by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use.

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Person to contact: Patricia Beardsley

General Aviation Pilot and Aircraft Activity Survey includes data on the type and source of aircraft flight plan and weather information services, trip length in time and distance, pilot age and certification, estimates of total 1989 general aviation operations, fuel consumption and aircraft miles flown. The survey was conducted from June through September 1990 by the FAA with the assistance of the Civil Air Patrol.

Latest edition: Calendar Year 1990
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Person to contact: Patricia Beardsley

Rotorcraft Activity Survey presents the results of a special, one-time survey. The report contains breakdowns of active rotorcraft, annual flight hours, average flight hours, and other statistics by rotorcraft type, manufacturer/model group, region and state of based aircraft, and primary use. Also included are law enforcement and public use rotorcraft, lifetime airframe hours, engine hours, estimated miles flown, and estimated number of landings.

Edition: Calendar Year 1989
Order from: Statistics and Forecast Branch, or
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Person to contact: Patricia Beardsley

U.S. Civil Airmen Statistics is an annual study of detailed airmen statistics. It contains statistics on pilot and nonpilots and the number of certificates issued.

Latest edition: Calendar Year 1993
Order from: Statistics and Forecast Branch, or
National Technical Information Service
1994 information will be available: February 1995
Date next publication is scheduled: June 1995 (1994 data)
Person to contact: Patricia Beardsley

PREFACE

This report presents the results of the 1993 General Aviation and Air Taxi Activity and Avionics (GAATAA) Survey and is prepared by the Statistics and Forecast Branch, Planning Analysis Division, Office of Aviation Policy, Plans, and Management Analysis (APO-110).

This survey provides information about the activity and avionics equipment of the general aviation and air taxi aircraft fleet. It excludes commuters. The information obtained from the survey enables the FAA to monitor the general aviation and air taxi fleet so that FAA can, among other activities, anticipate and meet demand for National Airspace System (NAS) facilities and services, assess the impact of regulatory changes on the general aviation and air taxi fleet, and implement measures to ensure the safe operation of all aircraft in the airspace.

Each year the information for the survey is collected using a statistically designed sample survey. The sample is selected from all general aviation and air taxi aircraft registered with the Federal Aviation Administration. Appendix A of this report provides a detailed description of the survey, its history, and the survey sample design.

As a result of an extensive review of the General Aviation Activity survey, the following major changes were introduced into the 1993 survey in order to make it more responsive to the general aviation community:

- Commuter aircraft are now excluded;
- Two new use categories - sight seeing and external load - were added;
- The number of aircraft type categories was expanded from 13 to 19;
- A question requesting the year the aircraft was manufactured was added so that some estimates of activity by aircraft age could be developed.

The report is divided into nine chapters as follows:

Chapter I, **Historical General Aviation Activity Measures, 1984-1993**, presents summary information from the 1984 through 1993 surveys. Statistics include general aviation and air taxi population sizes, the number of active aircraft, total hours flown and average hours flown. Other historical measures include active aircraft by aircraft type and by primary use. In addition, Chapter I provides three tables which highlight the 1993 GAATAA findings. These tables include active general aviation and air taxi aircraft by aircraft type and primary use, active general aviation and air taxi aircraft total hours by aircraft type and primary use, and active general aviation and air taxi aircraft and hours flown by FAA region and state of based aircraft.

Chapter II, **Common General Aviation Activity Measures**, presents information on the general aviation and air taxi population size, the number of active aircraft, total hours flown and average hours flown. Statistics on another measurement of activity, number of landings, are also given by total, local flight and cross country flight. This year, Chapter II presents three new tables providing data on the number of active general aviation aircraft and total hours flown in flight hour ranges by age of aircraft

Chapter III, **Primary and Actual Use**, looks at the number of active aircraft by primary use by type of aircraft and at the total hours flown by actual use by the general aviation and air taxi fleet. The major uses of the general aviation and air taxi aircraft and the number of nautical miles flown by actual use are also looked at in detail.

Chapter IV, **Flying Conditions**, presents statistics on the conditions under which the general aviation and air taxi population flies. Detailed statistics on the number of hours flown under Visual Meteorological Conditions (VMC) and Instrument Meteorological Conditions (IMC) during the day and night are given.

Chapter V, **Fuel Consumption**, gives information on the average and total fuel consumption rates of the general aviation and air taxi fleet.

Chapter VI, **Airframe Hours and Engine Activity**, provides data on the age of the general aviation and air taxi fleet--average airframe hours per active aircraft and the number of engines and average hours per engine.

Chapter VII, **Avionics For Non-Commuter Aircraft**, presents various figures and tables on selected avionics equipment capabilities of the general aviation and air taxi aircraft fleet under communications, transponders, navigation, precision approach, and guidance and control equipment categories.

Chapter VIII, **Avionics For Commuter Aircraft Only**, presents various figures and tables on selected avionics equipment capabilities of the commuter aircraft fleet under communications, transponders, navigation, precision approach, and guidance and control equipment categories.

Chapter IX, **National Airspace System (NAS) Capability Groups Based on Avionics**, provides numerous figures and tables on aircraft avionics capabilities by the two classifications of capability groups, hierarchical and nonhierarchical. These two groups were developed to provide a framework for relating airborne avionics equipment (discussed in Chapters VII and VIII) to aircraft capability to perform in the NAS.

Appendix A, **Methodology for the 1993 General Aviation and Air Taxi Activity and Avionics (GAATAA) Survey**, provides a detailed description of the survey, its history, the survey sample design, and a definition and explanation of "standard error," a statistical measure reported in each table.

Appendix B lists **Aircraft Group Name by FAA Manufacturer/Model Codes** and Appendix C lists the **Engine Group Name by FAA Manufacturer/Model Codes**. Appendix D contains a list of common acronyms, as well as a glossary of aviation terms found in this report.

Suggestions and comments about this report are welcome and will be given careful consideration in planning future editions.



John M. Rodgers
Director Aviation Policy, Plans,
and Management Analysis

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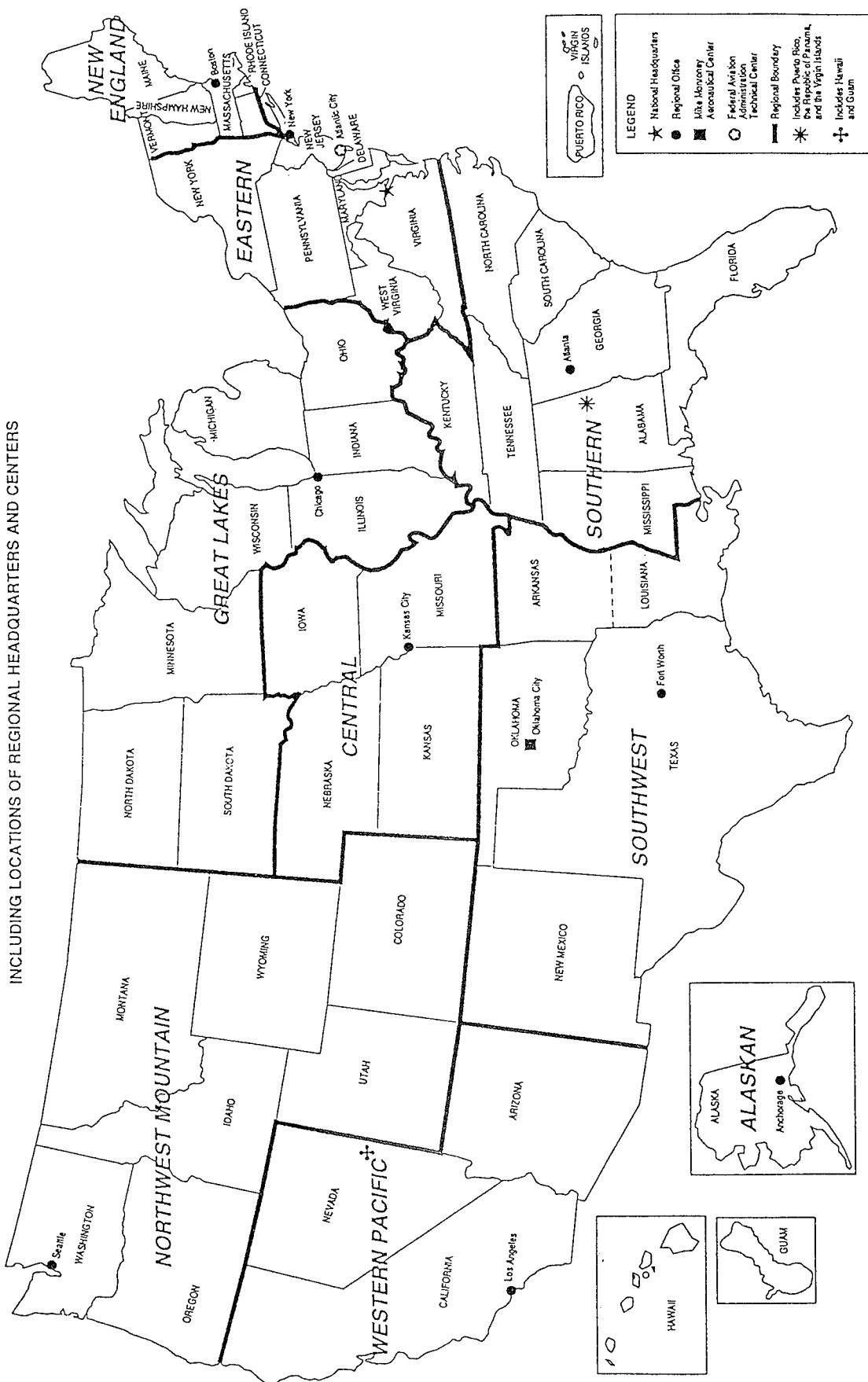
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FEDERAL AVIATION ADMINISTRATION

FAA REGIONAL BOUNDARIES

INCLUDING LOCATIONS OF REGIONAL HEADQUARTERS AND CENTERS



FAA-200-10-100

CHAPTER I

HISTORICAL GENERAL AVIATION ACTIVITY MEASURES

1.1 1993 GENERAL AVIATION NUMBER OF AIRCRAFT BY PRIMARY USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 3

AIRCRAFT TYPE	TOTAL ACTIVE	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER
FIXED WING: TOTAL	155,312	9,547	27,433	90,657	13,373	4,371	3,137	306	0	775	3,226	2,487
% STD. ERROR	0.7	3.5	3.1	1.1	4.8	3.7	10.6	29.7	0.0	17.9	8.3	11.0
PISTON: TOTAL	147,094	3,543	26,959	90,379	13,320	4,062	3,129	295	0	764	2,440	2,204
% STD. ERROR	0.8	8.7	3.1	1.1	4.8	3.9	10.7	30.8	0.0	18.0	10.4	12.1
ONE ENGINE: TOTAL	130,687	1,232	21,410	85,609	12,258	3,840	2,711	267	0	711	772	1,87
% STD. ERROR	0.8	16.9	3.6	1.2	5.1	3.8	11.7	33.5	0.0	19.0	20.7	13.3
TWO ENGINE: TOTAL	16,388	2,311	5,546	4,770	1,062	215	418	24	0	53	1,667	322
% STD. ERROR	2.1	9.7	6.0	6.4	14.2	32.2	23.8	61.7	0.0	48.8	11.9	29.7
PISTON: OTHER	18	0	2	0	0	7	0	4	0	0	0	5
% STD. ERROR	40.7	0.0	85.1	0.0	0.0	44.1	0.0	61.0	0.0	0.0	0.0	55.3
TURBOPROP: TOTAL	4,359	2,680	377	241	42	308	6	11	0	12	517	165
% STD. ERROR	3.3	4.2	19.5	30.2	44.6	5.1	75.3	43.3	0.0	*	11.4	28.4
ONE ENGINE: TOTAL	703	9	43	35	36	286	0	0	0	4	276	13
% STD. ERROR	6.8	*	47.1	53.0	43.4	5.3	0.0	0.0	0.0	*	8.3	89.9
TWO ENGINE: TOTAL	3,632	2,671	334	206	6	2	6	11	0	8	241	148
% STD. ERROR	3.8	4.2	21.1	34.2	*	*	75.3	43.3	0.0	55.1	22.5	30.5
TURBOPROP: OTHER	24	0	0	0	0	21	0	0	0	0	0	3
% STD. ERROR	41.0	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	0.0	96.7

1.1 1993 GENERAL AVIATION NUMBER OF AIRCRAFT BY PRIMARY USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 3

AIRCRAFT TYPE	PRIMARY USE											
	TOTAL ACTIVE	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER
TURBOJET: TOTAL	3,859	3,324	97	37	11	0	2	0	0	0	269	119
% STD. ERROR	2.8	2.3	38.1	48.0	81.6	0.0	*	0.0	0.0	0.0	21.2	33.3
TWO ENGINE: TOTAL	3,673	3,171	94	30	11	0	2	0	0	0	267	98
% STD. ERROR	2.9	2.4	39.2	58.8	81.6	0.0	*	0.0	0.0	0.0	21.3	40.4
TURBOJET: OTHER	186	154	3	7	0	0	0	0	0	0	2	21
% STD. ERROR	11.8	2.3	51.6	44.5	0.0	0.0	0.0	0.0	0.0	0.0	*	11.3
ROTORCRAFT: TOTAL	4,510	533	294	484	427	476	1,025	257	126	18	548	322
% STD. ERROR	3.4	17.3	21.3	12.6	12.8	13.8	11.3	26.3	31.9	92.3	14.6	20.4
PISTON: TOTAL	1,646	16	164	383	376	264	306	75	11	4	5	43
% STD. ERROR	6.3	58.9	21.7	12.9	11.6	16.6	15.8	37.5	40.4	*	*	32.7
TURBINE: TOTAL	2,864	517	130	102	51	212	719	183	115	14	543	280
% STD. ERROR	4.0	17.8	39.8	35.3	64.7	22.9	14.6	33.7	34.8	*	14.7	22.9
ONE ENGINE TURBINE	2,144	366	128	97	51	181	656	183	99	5	218	162
% STD. ERROR	5.0	23.1	40.1	36.5	64.7	26.1	15.5	33.7	40.1	*	32.1	36.2
MULTI-ENGL TURBINE	720	151	1	5	0	31	64	0	16	9	325	118
% STD. ERROR	5.3	23.6	*	*	0.0	37.5	39.9	0.0	31.6	*	11.8	22.2
GLIDERS	1,645	1	13	1,372	171	0	0	53	0	2	0	33
% STD. ERROR	6.9	*	*	4.5	29.4	0.0	0.0	54.7	0.0	*	0.0	70.3
LIGHTER-THAN-AIR	3,602	1	54	2,560	60	0	27	701	0	95	0	104
% STD. ERROR	5.7	*	78.7	6.2	75.1	0.0	*	19.8	0.0	59.3	0.0	56.5

1.1 1993 GENERAL AVIATION NUMBER OF AIRCRAFT BY PRIMARY USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 3

AIRCRAFT TYPE	PRIMARY USE												
	TOTAL ACTIVE	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
EXP. HOME BUILT % STD. ERROR	6,854 5.9	0 0.0	346 36.7	5,986 3.2	52 96.3	0 0.0	2 *	0 0.0	0 0.0	18 *	0 0.0	450 31.9	
EXP. EXHIBITION % STD. ERROR	1,622 7.4	0 0.0	9 *	1,308 5.7	24 94.4	1 *	2 *	1 *	0 0.0	9 *	0 0.0	269 26.0	
EXP. OTHER % STD. ERROR	2,462 5.0	196 34.1	341 25.0	1,290 9.6	37 81.4	65 60.7	194 34.3	7 *	0 0.0	92 51.1	0 0.0	240 30.5	
ALL AIRCRAFT % STD. ERROR	176,006 0.7	10,279 3.4	28,489 3.0	103,657 1.0	14,143 4.6	4,913 3.6	4,386 8.2	1,325 13.8	126 31.9	1,008 16.0	3,773 7.4	3,906 8.7	

1993 USE CATEGORY CHANGES: BEGINNING IN 1993,
COMMUTERS WERE EXCLUDED FROM THE SURVEY.
EXTERNAL LOAD AND SIGHT SEEING WERE CREATED AS SEPARATE CATEGORIES. PRIOR TO 1993 THEY WERE INCLUDED IN ONE OF THE OTHER
NINE CATEGORIES AS APPROPRIATE.

1993 NEW AIRCRAFT TYPES: PRIOR TO 1993,
SINGLE ENGINE TURBOPROPS WERE INCLUDED IN "OTHER" TURBOPROPS,
SINGLE AND MULTI ENGINE ROTORCRAFT WERE NOT SHOWN SEPARATELY,
GLIDERS AND LIGHTER-THAN-AIR AIRCRAFT WERE COMBINED INTO THE "OTHER" TYPE,
EXPERIMENTAL AIRCRAFT WERE INCLUDED IN THE APPROPRIATE AIRCRAFT TYPE. FOR EXAMPLE, PRIOR TO 1993 THE SINGLE ENGINE
PISTON AIRCRAFT TYPE INCLUDED BOTH EXPERIMENTAL AND NON EXPERIMENTAL AIRCRAFT. STARTING IN 1993 THAT AIRCRAFT TYPE
INCLUDES ONLY THE NON EXPERIMENTAL.

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A STANDARD ERROR OF 100.0 OR GREATER.

1.2 GENERAL AVIATION NUMBER OF ACTIVE AIRCRAFT
BY AIRCRAFT TYPE
1984 - 1993

PAGE 1 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/ (000)	1989 1/ (000)	1988 1/ (000)	1987 1/ (000)	1986 1/ (000)	1985 1/ (000)	1984
FIXED WING: TOTAL	155,312	170,844	184,620	184.5	190.8	183.8	190.5	192.3	184.7	207,571
% STD. ERROR	0.7	0.7	0.7	0.5	0.5	0.6	0.5	0.5	0.6	0.5
PISTON: TOTAL	147,094	162,117	175,347	175.2	180.8	175.0	181.5	182.5	175.6	197,442
% STD. ERROR	0.8	7.0	0.7	0.6	0.5	0.6	0.5	0.6	0.6	0.5
ONE ENGINE: TOTAL	130,687	143,580	154,102	154.0	158.9	153.7	159.7	160.3	153.4	171,922
% STD. ERROR	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.7	0.5
TWO ENGINE: TOTAL	16,388	18,451	21,119	21.1	21.8	21.2	21.7	22.1	22.1	25,258
% STD. ERROR	2.1	1.7	1.7	1.3	1.2	1.4	1.3	1.6	1.5	1.2
PISTON: OTHER	18	86	127	0.1	0.1	0.1	0.1	0.1	0.1	262
% STD. ERROR	40.7	17.7	22.2	30.0	33.8	21.7	25.0	24.3	20.9	13.4
TURBOPROP: TOTAL	4,359	4,704	4,920	5.3	5.9	4.9	4.9	5.6	5.0	5,809
% STD. ERROR	3.3	3.1	2.7	1.8	1.5	1.7	1.9	43.3	2.1	1.0
ONE ENGINE: TOTAL	703	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	6.8									
TWO ENGINE: TOTAL	3,632	4,094	4,398	4.9	5.7	4.7	4.7	5.4	4.9	5,633
% STD. ERROR	3.8	3.5	3.0	1.8	1.5	1.8	1.9	1.9	2.1	1.0
TURBOPROP: OTHER	24	610	522	0.4	0.2	0.2	0.2	0.2	0.1	176
% STD. ERROR	41.0	3.0	2.4	7.0	14.2	7.1	8.9	16.2	7.8	8.5

1.2 GENERAL AVIATION NUMBER OF ACTIVE AIRCRAFT
BY AIRCRAFT TYPE
1984 - 1993

PAGE 2 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/ (000)	1989 1/ (000)	1988 1/ (000)	1987 1/ (000)	1986 1/ (000)	1985 1/ (000)	1984
TURBOJET: TOTAL	3,859	4,022	4,353	4.1	4.1	3.9	4.0	4.2	4.1	4,320
% STD. ERROR	2.8	2.4	2.0	2.0	1.5	2.0	1.5	2.2	1.7	1.6
TWO ENGINE: TOTAL	3,673	3,790	4,066	3.7	3.7	3.6	3.6	3.8	3.6	3,780
% STD. ERROR	2.9	2.3	1.9	2.0	1.4	2.1	1.6	1.6	1.7	1.3
TURBOJET: OTHER	186	232	286	0.4	0.4	0.3	0.4	0.4	0.5	540
% STD. ERROR	11.8	15.3	14.4	8.2	8.2	5.5	5.0	16.2	7.2	26.9
ROTORCRAFT: TOTAL	4,510	5,753	6,292	6.9	7.0	6.0	5.9	6.5	6.0	7,096
% STD. ERROR	3.4	3.8	3.5	3.0	0.6	3.6	3.2	3.1	4.0	3.1
PISTON: TOTAL	1,646	2,211	2,470	3.2	3.0	2.4	2.6	2.7	2.7	2,936
% STD. ERROR	6.3	7.7	7.6	5.3	1.2	7.9	5.0	6.0	7.0	6.3
TURBINE: TOTAL	2,864	3,542	3,822	3.7	4.0	3.6	3.3	3.8	3.3	4,160
% STD. ERROR	4.0	3.9	2.9	3.1	0.4	2.7	4.2	3.1	4.5	2.8
ONE ENGINE TURBINE	2,144	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	5.0									
MULTI-ENGL TURBINE	720	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	5.3									
GLIDERS	1,645	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	6.9									
LIGHTER-THAN-AIR	3,602	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	5.7									

1.2 GENERAL AVIATION NUMBER OF ACTIVE AIRCRAFT
BY AIRCRAFT TYPE
1984 - 1993

PAGE 3 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/ (000)	1989 1/ (000)	1988 1/ (000)	1987 1/ (000)	1986 1/ (000)	1985 1/ (000)	1984
OTHER - TOTAL	N/A	7,837	7,563	6.6	7.2	6.4	6.3	6.5	5.8	6,275
% STD. ERROR		1.9	2.9	3.0	2.4	4.1	3.4	3.0	3.3	2.7
EXP. HOME BUILT	6,854	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	5.9									
EXP. EXHIBITION	1,622	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	7.4									
EXP. OTHER	2,462	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	5.0									
ALL AIRCRAFT	176,006	184,434	198,475	198.0	205.0	196.2	202.7	205.3	196.5	220,943
% STD. ERROR	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.6	0.5

BEGINNING IN 1993, EXCLUDES COMMUTERS.

EXTERNAL LOAD AND SIGHT SEEING WERE CREATED AS SEPARATE CATEGORIES. PRIOR TO 1993 THEY WERE INCLUDED IN ONE OF THE OTHER NINE CATEGORIES AS APPROPRIATE.

1993 NEW AIRCRAFT TYPES: PRIOR TO 1993,

SINGLE ENGINE TURBOPROPS WERE INCLUDED IN "OTHER" TURBOPROPS,

SINGLE AND MULTI ENGINE ROTORCRAFT WERE NOT SHOWN SEPARATELY,

GLIDERS AND LIGHTER-THAN-AIR AIRCRAFT WERE COMBINED INTO THE "OTHER" TYPE,

EXPERIMENTAL AIRCRAFT WERE INCLUDED IN THE APPROPRIATE AIRCRAFT TYPE. FOR EXAMPLE, PRIOR TO 1993 THE

SINGLE ENGINE PISTON AIRCRAFT TYPE INCLUDED BOTH EXPERIMENTAL AND NON EXPERIMENTAL AIRCRAFT. STARTING

IN 1993 THAT AIRCRAFT TYPE INCLUDES ONLY THE NON EXPERIMENTAL.

1/ REVISED TO CORRECT FOR NONRESPONSE BIAS

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

1.3 ACTIVE GENERAL AVIATION AIRCRAFT BY PRIMARY USE
1984 - 1993
(AIRCRAFT IN THOUSANDS)

PAGE 1 OF 1

USE CATEGORY	1993	1992	1991	1990 1/	1989 1/	1988 1/	1987 1/	1986 1/	1985 1/	1984
CORPORATE	9.9	9.4	10.0	10.1	11.5	10.2	11.1	11.3	12.7	16.7
BUSINESS	27.8	28.9	31.6	33.1	35.0	32.6	37.3	40.8	42.5	47.1
PERSONAL	102.1	108.7	115.1	112.6	116.4	114.4	115.3	112.2	96.2	105.3
INSTRUCTIONAL	15.6	16.0	17.9	18.6	16.6	15.6	14.7	14.8	13.4	15.3
AERIAL APPLICATION	5.0	5.1	7.0	6.2	6.6	6.6	6.1	6.6	6.8	7.3
AERIAL OBSERVATION	4.8	5.6	5.1	4.9	5.4	4.4	4.5	4.4	4.2	5.2
SIGHT SEEING	1.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EXTERNAL LOAD	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OTHER WORK	1.0	1.7	1.7	1.4	2.0	1.7	1.5	1.2	1.5	1.3
AIR TAXI	3.8	4.7	5.5	5.8	6.6	6.0	5.8	7.1	6.0	7.3
OTHER	4.2	3.5	3.9	4.1	3.6	3.8	5.5	5.3	5.0	4.8
RENTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.4	9.4
SUBTOTAL		183.6	197.8	196.8	203.7	195.3	201.8	203.7	195.7	220.9
COMMUTER AIR TAXI	N/A	0.8	0.7	1.2	1.3	0.9	0.9	1.6	0.8	1.2
TOTAL	176.0	184.4	198.5	198.0	205.0	196.2	202.7	205.3	196.5	222.1

1993 USE CATEGORIES CHANGES: BEGINNING IN 1993, COMMUTERS WERE EXCLUDED FROM THE SURVEY.

EXTERNAL LOAD AND SIGHT SEEING WERE CREATED AS SEPARATE CATEGORIES. PRIOR TO 1993 THEY WERE INCLUDED IN ONE OF THE OTHER NINE CATEGORIES AS APPROPRIATE.

1/ REVISED TO CORRECT FOR NONRESPONSE BIAS

N/A RENTAL HOURS NO LONGER COLLECTED AS A SEPARATE USE CATEGORY.

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

1.4 1993 GENERAL AVIATION TOTAL HOURS FLOWN BY ACTUAL USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 3

AIRCRAFT TYPE	ACTUAL USE											TOTAL
	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
FIXED WING: TOTAL	2,466,874	3,306,984	7,439,694	4,177,810	1,038,979	998,185	76,629	0	146,837	1,168,221	388,772	21,421,226
% STD. ERROR	4.2	3.9	1.9	6.6	5.5	19.3	42.0	0.0	19.1	10.1	13.2	1.9
PISTON: TOTAL	708,782	3,239,557	7,398,215	4,164,300	929,355	997,054	68,670	0	144,037	860,641	289,328	19,029,404
% STD. ERROR	10.4	4.0	1.9	6.7	5.9	19.3	46.2	0.0	19.4	12.7	15.9	2.1
ONE ENGINE: TOTAL	262,623	2,539,773	6,909,795	3,878,573	906,005	901,412	61,581	0	132,820	377,368	265,931	16,514,182
% STD. ERROR	19.6	4.6	2.0	7.0	6.0	21.0	50.2	0.0	20.2	24.1	17.0	2.4
TWO ENGINE: TOTAL	446,159	699,726	488,421	285,728	22,945	95,642	6,806	0	11,217	483,273	23,229	2,514,305
% STD. ERROR	12.0	7.2	8.5	14.8	28.4	26.9	63.2	0.0	60.0	13.7	39.6	3.9
PISTON: OTHER	0	59	0	0	404	0	282	0	0	0	168	914
% STD. ERROR	0.0	85.1	0.0	0.0	44.2	0.0	62.6	0.0	0.0	0.0	65.4	42.8
TURBOPROP: TOTAL	750,613	53,792	32,927	10,063	109,625	1,055	7,959	0	2,800	200,089	72,864	1,226,508
% STD. ERROR	6.0	26.0	37.9	77.9	11.1	86.5	51.2	0.0	*	14.0	26.5	5.6
ONE ENGINE: TOTAL	1,984	6,024	3,815	7,958	106,399	0	0	0	1,137	120,185	2,756	244,210
% STD. ERROR	*	49.8	55.5	85.8	11.1	0.0	0.0	0.0	*	15.1	58.3	11.3
TWO ENGINE: TOTAL	748,629	47,768	29,112	2,105	153	1,055	7,959	0	1,663	79,904	69,917	979,020
% STD. ERROR	6.0	28.9	42.7	*	92.0	86.5	51.2	0.0	50.8	23.5	31.5	6.4
TURBOPROP: OTHER	0	0	0	0	3,073	0	0	0	0	0	190	3,279
% STD. ERROR	0.0	0.0	0.0	0.0	16.8	0.0	0.0	0.0	0.0	0.0	96.7	42.6

1.4 1993 GENERAL AVIATION TOTAL HOURS FLOWN BY ACTUAL USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 3

AIRCRAFT TYPE	ACTUAL USE											TOTAL
	CORP-ORATE	BUSI-NESS	PER-SONAL	INSTRUC-TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
TURBOJET: TOTAL	1,007,478	13,634	8,551	3,448	0	75	0	0	0	107,491	26,580	1,165,319
% STD. ERROR	4.1	50.8	48.8	83.1	0.0	*	0.0	0.0	0.0	23.3	38.8	4.7
TWO ENGINE: TOTAL	970,434	13,547	8,343	3,448	0	75	0	0	0	107,083	24,970	1,126,047
% STD. ERROR	4.3	52.1	54.3	83.1	0.0	*	0.0	0.0	0.0	23.4	44.9	4.8
TURBOJET: OTHER	37,045	87	208	0	0	0	0	0	0	408	1,610	39,272
% STD. ERROR	8.6	59.6	*	0.0	0.0	0.0	0.0	0.0	0.0	*	30.8	15.5
ROTORCRAFT: TOTAL	202,424	48,518	38,277	182,585	115,102	585,367	147,420	93,619	3,837	282,511	149,235	1,832,306
% STD. ERROR	20.1	41.1	17.3	15.1	16.9	14.9	30.5	37.1	*	17.9	26.3	6.3
PISTON: TOTAL	1,544	11,977	28,097	147,488	55,227	109,008	16,929	1,050	519	917	3,508	370,099
% STD. ERROR	68.1	23.0	18.9	12.5	18.7	19.5	43.5	58.0	*	*	31.8	8.7
TURBINE: TOTAL	200,880	36,541	10,180	35,097	59,876	476,359	130,491	92,568	3,318	281,595	145,727	1,462,206
% STD. ERROR	20.5	59.3	43.5	70.7	29.6	18.8	38.5	38.9	*	18.1	28.8	7.6
ONE ENGINE TURBINE	131,973	36,281	9,189	35,097	53,384	448,818	130,491	61,665	29	113,425	63,087	1,072,604
% STD. ERROR	27.4	59.7	44.6	71.5	32.1	19.4	38.5	48.9	*	37.4	55.4	9.5
MULTI-ENGL TURBINE	68,907	259	991	0	6,492	27,541	0	30,903	3,289	168,169	82,640	389,602
% STD. ERROR	23.9	*	*	0.0	43.1	40.5	0.0	29.9	*	15.1	20.2	10.8
GLIDERS	69	395	83,352	49,647	0	0	18,648	0	213	0	3,593	159,092
% STD. ERROR	*	*	10.9	35.2	0.0	0.0	69.6	0.0	*	0.0	72.1	17.1
LIGHTER-THAN-AIR	10	885	69,785	1,834	0	6,872	112,126	0	11,626	0	5,312	216,633
% STD. ERROR	*	92.7	9.0	91.9	0.0	*	52.4	0.0	66.2	0.0	70.7	30.2

1.4 1993 GENERAL AVIATION TOTAL HOURS FLOWN BY ACTUAL USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 3

AIRCRAFT TYPE	ACTUAL USE										TOTAL
	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	
EXP. HOME BUILT % STD. ERROR	0 0.0	20,567 44.6	262,722 7.7	3,575 *	0 0.0	72 *	0 0.0	0 0.0	124 *	0 0.0	298,339 9.0
EXP. EXHIBITION % STD. ERROR	0 0.0	524 *	76,765 18.9	824 *	159 *	111 *	26 *	0 0.0	991 *	0 0.0	87,679 18.2
EXP. OTHER % STD. ERROR	78,963 45.1	34,378 30.5	71,700 13.4	3,799 *	7,061 64.6	59,749 43.6	3,362 *	0 0.0	9,530 69.3	0 0.0	324,608 15.0
ALL AIRCRAFT % STD. ERROR	2,748,339 4.3	3,412,250 3.9	8,042,293 1.8	4,420,073 6.3	1,161,301 5.2	1,650,355 13.2	358,210 22.4	93,619 36.8	173,159 17.2	1,450,733 8.9	24,339,884 1.8

1993 USE CATEGORY CHANGES: BEGINNING IN 1993,
COMMUTERS WERE EXCLUDED FROM THE SURVEY.
EXTERNAL LOAD AND SIGHT SEEING WERE CREATED AS SEPARATE CATEGORIES. PRIOR TO 1993 THEY WERE INCLUDED IN ONE OF THE OTHER NINE CATEGORIES
AS APPROPRIATE.

1993 NEW AIRCRAFT TYPES: PRIOR TO 1993,
SINGLE ENGINE TURBOPROPS WERE INCLUDED IN "OTHER" TURBOPROPS,
SINGLE AND MULTI ENGINE ROTORCRAFT WERE NOT SHOWN SEPARATELY,
GLIDERS AND LIGHTER-THAN-AIR AIRCRAFT WERE COMBINED INTO THE "OTHER" TYPE,
EXPERIMENTAL AIRCRAFT WERE INCLUDED IN THE APPROPRIATE AIRCRAFT TYPE. FOR EXAMPLE, PRIOR TO 1993 THE SINGLE ENGINE
PISTON AIRCRAFT TYPE INCLUDED BOTH EXPERIMENTAL AND NON EXPERIMENTAL AIRCRAFT. STARTING IN 1993 THAT AIRCRAFT TYPE
INCLUDES ONLY THE NON EXPERIMENTAL.

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A STANDARD ERROR OF 100.0 OR GREATER.

1.5 GENERAL AVIATION TOTAL HOURS FLOWN BY AIRCRAFT TYPE
1984 - 1993
(HOURS IN THOUSANDS)

PAGE 1 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/	1989 1/	1988 1/	1987 1/	1986 1/	1985 1/	1984
FIXED WING: TOTAL	21,421	23,801	26,851	29,546	29,327	28,040	28,391	28,994	29,085	33,265
% STD. ERROR	1.9	1.7	1.9	1.8	1.7	1.8	1.7	1.7	1.7	2.1
PISTON: TOTAL	19,029	21,251	24,102	25,832	24,907	24,291	24,969	24,805	25,666	29,194
% STD. ERROR	2.1	1.9	2.1	2.0	1.9	2.0	1.9	1.9	1.9	1.8
ONE ENGINE: TOTAL	16,514	18,074	20,540	21,883	20,600	20,326	20,446	20,260	21,102	23,506
% STD. ERROR	2.4	2.1	2.3	2.2	2.2	2.2	2.0	2.1	2.1	2.1
TWO ENGINE: TOTAL	2,514	3,172	3,555	3,897	4,292	3,943	4,509	4,535	4,539	5,585
% STD. ERROR	3.9	3.9	4.1	3.8	3.3	4.1	5.2	4.6	4.1	3.6
PISTON: OTHER	1	4	7	53	16	20	14	10	24	102
% STD. ERROR	42.8	22.6	33.5	48.7	67.3	44.5	33.3	45.5	34.6	29.4
TURBOPROP: TOTAL	1,227	1,478	1,513	2,319	2,892	2,195	2,010	2,661	1,921	2,506
% STD. ERROR	5.6	5.7	5.3	6.4	5.0	5.0	5.0	5.1	4.6	4.7
ONE ENGINE: TOTAL	244	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	11.3									
TWO ENGINE: TOTAL	979	1,238	1,359	2,162	2,776	2,117	1,841	2,583	1,862	2,452
% STD. ERROR	6.4	6.5	5.8	6.8	5.2	5.1	5.0	5.3	4.8	4.7
TURBOPROP: OTHER	3	240	154	157	116	78	169	78	59	54
% STD. ERROR	42.6	10.2	12.8	10.9	16.6	14.9	24.6	14.1	10.9	29.9

1.5 GENERAL AVIATION TOTAL HOURS FLOWN BY AIRCRAFT TYPE
1984 - 1993
(HOURS IN THOUSANDS)

PAGE 2 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/	1989 1/	1988 1/	1987 1/	1986 1/	1985 1/	1984
TURBOJET: TOTAL	1,165	1,072	1,236	1,396	1,527	1,554	1,411	1,527	1,498	1,566
% STD. ERROR	4.7	4.2	4.5	4.1	3.7	4.4	3.9	4.7	4.4	4.7
TWO ENGINE: TOTAL	1,126	1,030	1,183	1,279	1,424	1,434	1,312	1,446	1,349	1,328
% STD. ERROR	4.8	4.3	4.7	4.3	3.9	4.7	4.2	4.9	4.8	5.0
TURBOJET: OTHER	39	42	54	117	103	120	99	90	149	237
% STD. ERROR	15.5	16.4	15.1	12.2	12.2	10.9	10.3	19.4	10.6	13.9
ROTORCRAFT: TOTAL	1,832	2,283	2,757	2,209	2,610	2,507	2,108	2,424	1,990	2,495
% STD. ERROR	6.3	6.6	7.5	5.9	0.9	6.5	7.4	6.7	7.7	5.5
PISTON: TOTAL	370	416	585	716	692	533	602	742	521	592
% STD. ERROR	8.7	12.4	12.0	10.2	2.1	11.6	9.2	12.8	15.1	11.3
TURBINE: TOTAL	1,462	1,866	2,172	1,493	1,918	1,974	1,506	1,682	1,468	1,903
% STD. ERROR	7.6	7.6	9.0	7.2	0.9	7.6	9.6	7.7	8.9	6.4
ONE ENGINE TURBINE	1,073	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	9.5									
MULTI-ENGL TURBINE	390	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	10.8									
GLIDERS	159	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	17.1									
LIGHTER-THAN-AIR	217	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	30.2									

1.5 GENERAL AVIATION TOTAL HOURS FLOWN BY AIRCRAFT TYPE
1984 - 1993
(HOURS IN THOUSANDS)

PAGE 3 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/	1989 1/	1988 1/	1987 1/	1986 1/	1985 1/	1984
OTHER - TOTAL	N/A	410	459	341	396	568	384	364	382	358
% STD. ERROR		6.0	8.9	7.0	7.4	24.2	6.0	7.6	8.2	6.7
EXP. HOME BUILT	298	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	9.0									
EXP. EXHIBITION	88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	18.2									
EXP. OTHER	325	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	15.0									
ALL AIRCRAFT	24,340	26,493	30,067	32,096	32,332	31,114	30,883	31,782	31,456	36,119
% STD. ERROR	1.8	1.6	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.6

BEGINNING IN 1993, EXCLUDES COMMUTERS.

1993 NEW AIRCRAFT TYPES: PRIOR TO 1993, SINGLE ENGINE TURBOPROPS WERE INCLUDED IN "OTHER" TURBOPROPS, SINGLE AND MULTI ENGINE ROTORCRAFT WERE NOT SHOWN SEPARATELY, GLIDERS AND LIGHTER-THAN-AIR AIRCRAFT WERE COMBINED INTO THE "OTHER" TYPE, EXPERIMENTAL AIRCRAFT WERE INCLUDED IN THE APPROPRIATE AIRCRAFT TYPE. FOR EXAMPLE, PRIOR TO 1993 THE SINGLE ENGINE PISTON AIRCRAFT TYPE INCLUDED BOTH EXPERIMENTAL AND NON EXPERIMENTAL AIRCRAFT. STARTING IN 1993 THAT AIRCRAFT TYPE INCLUDES ONLY THE NON EXPERIMENTAL.

1/ REVISED TO CORRECT FOR NONRESPONSE BIAS

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

1.6 ACTIVE GENERAL AVIATION AIRCRAFT TOTAL HOURS FLOWN
BY PRIMARY USE
1984 - 1993
(HOURS IN THOUSANDS)

PAGE 1 OF 1

USE CATEGORY	1993	1992	1991	1990 1/	1989 1/	1988 1/	1987 1/	1986 1/	1985 1/	1984
CORPORATE	2,659	2,262	2,617	2,913	3,453	3,472	3,143	3,491	3,857	4,773
BUSINESS	3,345	3,537	4,154	4,417	4,330	4,594	5,276	5,444	6,034	6,635
PERSONAL	7,938	8,592	9,685	9,276	9,537	10,015	9,961	9,324	7,750	8,417
INSTRUCTIONAL	4,680	5,340	6,141	7,244	5,993	4,917	4,529	4,319	3,938	4,553
AERIAL APPLICATION	1,167	1,296	1,911	1,872	1,868	1,842	1,538	1,833	2,002	2,008
AERIAL OBSERVATION	1,750	1,730	1,797	1,745	1,719	1,308	1,304	1,496	1,214	1,314
SIGHT SEEING	412	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EXTERNAL LOAD	105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OTHER WORK	175	343	471	572	517	525	350	298	317	312
AIR TAXI	1,452	2,009	2,241	2,249	3,020	2,632	2,657	2,690	2,570	3,019
OTHER	656	358	473	475	507	774	871	868	767	729
RENTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,385	2,854
SUBTOTAL	24,340	25,800	29,497	30,763	30,940	30,078	29,628	29,764	30,833	34,615
COMMUTER AIR TAXI	N/A	693	570	1,333	1,392	1,036	1,255	2,018	623	1,504
TOTAL	24,340	26,493	30,067	32,096	32,332	31,114	30,883	31,782	31,456	36,119

1993 USE CATEGORIES CHANGES: BEGINNING IN 1993, COMMUTERS WERE EXCLUDED FROM THE SURVEY.

EXTERNAL LOAD AND SIGHT SEEING WERE CREATED AS SEPARATE CATEGORIES. PRIOR TO 1993 THEY WERE INCLUDED IN ONE OF THE OTHER NINE CATEGORIES AS APPROPRIATE.

1/ REVISED TO CORRECT FOR NONRESPONSE BIAS

N/A RENTAL HOURS NO LONGER COLLECTED AS A SEPARATE USE CATEGORY.

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

1.7 GENERAL AVIATION AIRCRAFT AVERAGE HOURS FLOWN
BY AIRCRAFT TYPE
1984 - 1993

PAGE 1 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/	1989 1/	1988 1/	1987 1/	1986 1/	1985 1/	1984
FIXED WING: TOTAL	135.3	136.7	143.8	160.1	153.7	152.6	149.0	150.8	157.5	156.0
% STD. ERROR	1.9	1.8	1.9	1.8	1.7	1.8	1.7	1.7	1.7	1.7
PISTON: TOTAL	129.3	130.4	137.5	147.4	137.8	138.8	137.6	135.9	146.2	147.1
% STD. ERROR	3.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8
ONE ENGINE: TOTAL	126.9	126.1	134.2	142.1	129.6	132.2	128.0	126.4	137.6	137.0
% STD. ERROR	2.3	2.2	2.2	2.2	2.2	2.2	2.0	2.0	2.0	2.0
TWO ENGINE: TOTAL	150.8	170.3	167.0	184.7	196.9	186.0	207.8	205.2	205.4	218.0
% STD. ERROR	3.4	3.9	3.8	3.8	3.1	3.5	5.1	4.4	3.8	3.2
PISTON: OTHER	49.6	49.6	41.3	526.4	157.0	203.8	138.5	101.6	240.1	433.0
% STD. ERROR	13.1	26.5	26.1	30.6	24.9	42.2	22.7	45.4	27.0	24.8
TURBOPROP: TOTAL	227.5	314.1	307.7	437.5	490.2	448.0	410.3	475.3	384.2	414.2
% STD. ERROR	4.7	4.8	4.3	4.4	4.3	4.5	4.7	4.5	4.2	4.4
ONE ENGINE: TOTAL	342.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	8.4									
TWO ENGINE: TOTAL	265.4	301.2	311.9	441.2	487.0	450.5	391.8	478.3	379.9	416.0
% STD. ERROR	5.5	5.5	4.5	4.7	4.4	4.6	4.7	4.6	4.4	4.5
TURBOPROP: OTHER	135.3	381.6	279.2	392.5	581.8	389.0	845.0	392.5	591.0	339.0
% STD. ERROR	11.6	1.1	14.0	8.3	13.7	16.7	24.5	13.8	6.0	17.2

1.7 GENERAL AVIATION AIRCRAFT AVERAGE HOURS FLOWN
BY AIRCRAFT TYPE
1984 - 1993

PAGE 2 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/	1989 1/	1988 1/	1987 1/	1986 1/	1985 1/	1984
TURBOJET: TOTAL	298.4	270.7	289.7	340.6	372.5	398.5	352.8	363.7	365.3	353.6
% STD. ERROR	3.5	3.6	4.0	3.7	3.4	3.8	3.6	4.8	4.0	4.0
TWO ENGINE: TOTAL	302.2	276.9	296.7	345.7	384.9	398.3	364.5	380.6	374.8	348.0
% STD. ERROR	3.6	3.7	4.2	4.0	3.6	4.1	3.8	4.8	4.4	4.1
TURBOJET: OTHER	213.5	180.8	192.0	293.2	258.6	401.4	247.0	226.2	297.4	392.0
% STD. ERROR	7.8	13.4	7.5	10.8	11.5	10.4	9.6	28.0	5.8	14.7
ROTORCRAFT: TOTAL	398.6	381.7	451.6	320.1	372.8	417.9	357.3	372.9	331.7	343.6
% STD. ERROR	5.6	7.8	7.8	5.5	0.8	6.2	7.0	6.3	6.8	5.4
PISTON: TOTAL	218.8	184.6	233.7	223.7	230.6	222.3	231.6	275.0	192.9	186.0
% STD. ERROR	6.6	11.8	9.0	8.9	1.9	9.0	7.8	11.1	12.8	9.7
TURBINE: TOTAL	506.0	491.3	592.2	403.6	479.5	548.3	456.4	442.5	444.9	468.0
% STD. ERROR	6.8	9.1	9.6	6.9	8.0	7.6	9.5	7.6	8.0	6.4
ONE ENGINE TURBINE	501.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	8.0									
MULTI-ENGL TURBINE	525.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	9.7									
GLIDERS	96.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	15.7									
LIGHTER-THAN-AIR	60.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	29.6									

1.7 GENERAL AVIATION AIRCRAFT AVERAGE HOURS FLOW
BY AIRCRAFT TYPE
1984 - 1993

PAGE 3 OF 3

AIRCRAFT TYPE	1993	1992	1991	1990 1/	1989 1/	1988 1/	1987 1/	1986 1/	1985 1/	1984
OTHER - TOTAL	N/A	50.9	61.4	51.6	55.0	88.7	61.0	56.0	65.9	56.5
% STD. ERROR		8.2	9.7	6.8	7.5	25.1	5.5	7.5	7.6	6.4
EXP. HOME BUILT	43.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	6.8									
EXP. EXHIBITION	54.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	16.6									
EXP. OTHER	131.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
% STD. ERROR	14.2									
ALL AIRCRAFT	134.4	140.4	149.1	162.1	157.7	158.6	152.4	154.8	160.1	158.1
% STD. ERROR	1.8	1.8	1.8	1.7	1.6	1.7	1.6	1.6	1.6	1.6

BEGINNING IN 1993, EXCLUDES COMMUTERS.

1993 NEW AIRCRAFT TYPES: PRIOR TO 1993,
SINGLE ENGINE TURBOPROPS WERE INCLUDED IN "OTHER" TURBOPROPS,
SINGLE AND MULTI ENGINE ROTORCRAFT WERE NOT SHOWN SEPARATELY,
GLIDERS AND LIGHTER-THAN-AIR AIRCRAFT WERE COMBINED INTO THE "OTHER" TYPE,
EXPERIMENTAL AIRCRAFT WERE INCLUDED IN THE APPROPRIATE AIRCRAFT TYPE. FOR EXAMPLE, PRIOR TO 1993 THE
SINGLE ENGINE PISTON AIRCRAFT TYPE INCLUDED BOTH EXPERIMENTAL AND NON EXPERIMENTAL AIRCRAFT. STARTING
IN 1993 THAT AIRCRAFT TYPE INCLUDES ONLY THE NON EXPERIMENTAL.

1/ REVISED TO CORRECT FOR NONRESPONSE BIAS

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

1.8 1993 GENERAL AVIATION NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN
BY FAA REGION AND STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 3

FAA REGION AND STATE	ACTIVE AIRCRAFT		HOURS FLOWN	
	AIRCRAFT	PERCENT STANDARD ERROR	HOURS (000)	PERCENT STANDARD ERROR
ALASKAN - TOTAL	5,410	7.2	699	8.8
CENTRAL - TOTAL	10,517	6.0	1,391	7.6
IOWA	2,328	12.3	249	15.2
KANSAS	2,953	10.7	416	13.2
MISSOURI	3,494	10.0	541	13.8
NEBRASKA	1,743	13.8	185	17.1
EASTERN - TOTAL	21,222	4.1	2,527	5.0
DELAWARE	1,332	15.4	229	21.6
DISTRICT OF COLUMBIA	24	*	7	*
MARYLAND	2,299	12.2	285	14.5
NEW JERSEY	3,434	10.0	470	11.6
NEW YORK	5,371	8.0	517	9.4
PENNSYLVANIA	5,145	8.1	548	10.5
VIRGINIA	2,764	11.1	385	13.9
WEST VIRGINIA	852	21.1	85	11.9
GREAT LAKES - TOTAL	32,424	3.2	3,791	4.0
ILLINOIS	6,160	7.5	834	9.1
INDIANA	3,753	9.5	528	11.2
MICHIGAN	6,150	7.5	675	8.6
MINNESOTA	4,583	8.5	528	12.1
NORTH DAKOTA	1,322	15.9	173	20.7
OHIO	5,620	7.8	593	8.9
SOUTH DAKOTA	1,001	18.2	123	26.0
WISCONSIN	3,836	9.5	336	11.9

1.8 1993 GENERAL AVIATION NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN
BY FAA REGION AND STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 3

FAA REGION AND STATE	ACTIVE AIRCRAFT		HOURS FLOWN	
	AIRCRAFT	PERCENT STANDARD ERROR	HOURS (000)	PERCENT STANDARD ERROR
NEW ENGLAND - TOTAL	7,160	7.4	905	9.1
CONNECTICUT	1,477	15.5	198	20.8
MAINE	1,029	18.8	116	24.2
MASSACHUSETTS	2,691	11.6	381	14.9
NEW HAMPSHIRE	1,216	16.4	131	19.1
RHODE ISLAND	284	36.3	34	41.9
VERMONT	464	27.2	45	37.7
NORTHWEST MOUNTAIN - TOTAL	18,259	4.4	2,403	5.8
COLORADO	3,855	9.5	601	14.0
IDAHO	1,797	13.5	216	17.3
MONTANA	1,808	13.9	192	16.7
OREGON	3,789	9.4	469	11.2
UTAH	1,041	18.3	167	23.6
WASHINGTON	5,326	7.9	688	10.6
WYOMING	645	22.6	69	28.1
SOUTHERN - TOTAL	28,544	3.4	4,432	4.4
ALABAMA	2,736	11.4	336	13.1
FLORIDA	10,498	5.5	1,912	6.9
GEORGIA	3,796	9.5	444	10.5
KENTUCKY	1,476	15.6	207	18.0
MISSISSIPPI	1,469	15.0	289	20.9
NORTH CAROLINA	3,782	9.5	480	11.5
PUERTO RICO	305	32.8	51	39.4
SOUTH CAROLINA	1,641	14.6	331	20.5
TENNESSEE	2,766	11.5	382	14.1
SOUTHWEST - TOTAL	22,868	3.8	3,552	4.8
ARKANSAS	2,415	11.7	359	14.6
LOUISIANA	2,255	12.2	356	15.1
NEW MEXICO	2,120	12.5	247	17.5
OKLAHOMA	3,135	10.6	458	13.6
TEXAS	12,944	4.9	1,953	6.0

1.8 1993 GENERAL AVIATION NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN
BY FAA REGION AND STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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FAA REGION AND STATE	ACTIVE AIRCRAFT		HOURS FLOWN	
	AIRCRAFT	PERCENT STANDARD ERROR	HOURS (000)	PERCENT STANDARD ERROR
WESTERN-PACIFIC - TOTAL	29,598	3.3	4,636	4.1
ARIZONA	4,111	9.0	879	11.7
CALIFORNIA	23,279	3.6	3,314	4.1
HAWAII	312	29.8	140	42.2
NEVADA	1,838	13.1	268	19.7
TOTAL	176,006	0.7	24,337	1.8

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO
ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A
STANDARD ERROR OF 100.0 OR GREATER.

CHAPTER II

COMMON GENERAL AVIATION ACTIVITY MEASURES

2.1 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

AIRCRAFT TYPE	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
FIXED WING									
FIXED WING - PISTON									
1 ENG: 1-3 SEATS	68,813	41,250	1.8	59.9	1.1	4,757,842	4.1	115.4	3.7
1 ENG: 4+ SEATS	109,606	89,436	0.9	81.6	0.7	11,756,339	2.9	132.2	2.8
1 ENGINE: TOTAL	178,419	130,687	0.8	73.2	0.6	16,514,181	2.4	126.9	2.3
2 ENG: 1-6 SEATS	15,187	10,922	2.9	71.9	2.1	1,620,287	5.0	146.1	4.3
2 ENG: 7+ SEATS	6,581	5,465	2.3	83.0	1.9	894,017	6.2	160.9	5.7
2 ENGINE: TOTAL	21,768	16,388	2.1	75.3	1.6	2,514,305	3.9	150.8	3.4
PISTON: OTHER	95	18	38.9	18.9	7.4	913	42.8	49.6	13.1
PISTON: TOTAL	200,282	147,093	0.8	73.4	0.6	19,029,400	2.1	129.3	2.1
FIXED WING - TURBOPROP									
1 ENGINE: TOTAL	807	703	6.7	87.1	5.8	244,209	11.3	342.5	8.4
2 ENG: 1-12 SEATS	4,086	3,265	3.8	79.9	3.0	843,800	6.7	261.0	6.0
2 ENG: 13+ SEATS	868	365	15.6	42.1	6.6	135,218	21.0	320.3	6.8
2 ENGINE: TOTAL	4,954	3,631	3.8	73.3	2.8	979,019	6.5	265.4	5.5
TURBOPROP: OTHER	71	24	37.5	33.8	12.7	3,278	42.6	135.3	11.6
TURBOPROP: TOTAL	5,832	4,359	3.3	74.7	2.5	1,226,508	5.6	277.5	4.7
FIXED WING - TURBOJET									
2 ENGINE: TOTAL	4,272	3,672	2.9	86.0	2.5	1,126,046	4.8	302.2	3.6

2.1 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

AIRCRAFT TYPE	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
TURBOJET: OTHER	434	186	11.8	42.9	5.1	39,272	15.5	213.5	7.8
TURBOJET: TOTAL	4,706	3,859	2.8	82.0	2.3	1,165,318	4.7	298.4	3.5
FIXED WING: TOTAL	210,820	155,312	0.7	73.7	0.5	21,421,222	1.9	135.3	1.9
ROTORCRAFT									
PISTON: TOTAL	4,274	1,645	6.3	38.5	2.4	370,099	8.8	218.8	6.6
1 ENG: TURBINE	3,040	2,144	5.0	70.5	3.6	1,072,604	9.6	501.8	8.0
MULTI-ENG: TURBINE	906	719	5.3	79.4	4.2	389,602	10.9	525.5	9.7
TURBINE: TOTAL	3,946	2,864	4.0	72.6	2.9	1,462,206	7.6	506.0	6.8
ROTORCRAFT: TOTAL	8,220	4,509	3.4	54.9	1.9	1,832,305	6.3	398.6	5.6
OTHER AIRCRAFT									
GLIDERS:	2,760	1,645	6.8	59.6	4.1	159,091	17.1	96.7	15.7
LIGHTER-THAN-AIR:	5,497	3,601	5.7	65.5	3.7	216,633	30.2	60.1	29.6
EXPERIMENTAL:									
HOME BUILT:	12,683	6,853	5.9	54.0	3.2	298,339	9.0	43.5	6.8
EXHIBITION:	2,617	1,621	7.3	61.9	4.5	87,679	18.2	54.1	16.6
OTHER:	3,374	2,461	5.0	72.9	3.6	324,608	15.0	131.9	14.2
TOTAL	245,971	176,006	0.7	71.6	0.5	24,339,880	1.8	134.4	1.8

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
1ENG PIST (1)	10,115	4,622	6.8	45.7	3.1	269,783	14.7	58.4	13.1
1ENG PIST (2)	893	400	12.0	44.8	5.4	40,351	24.2	100.9	21.0
2ENG PIST (3)	469	212	10.7	45.2	4.8	34,031	20.4	160.6	17.4
2ENG PIST (4)	1,320	1,078	6.5	81.7	5.3	151,066	14.0	140.1	12.4
PIST OTHR (5)	95	18	40.7	19.4	7.9	914	42.8	49.6	13.1
1ENG TURB (6)	136	103	15.1	75.7	11.4	23,682	24.2	230.1	18.9
2ENG TURB (7)	191	125	12.3	65.5	8.1	22,413	15.1	179.1	8.8
2ENG TURB (8)	135	37	23.0	27.2	6.3	9,338	28.3	254.3	16.5
TURB OTHR (9)	71	24	41.0	34.1	14.0	3,279	42.6	135.3	11.6
2ENG TURBOJET (10)	203	130	16.8	64.0	10.7	32,317	23.5	248.9	16.5
TURBOJET OTHR (11)	189	31	17.8	16.3	2.9	1,863	35.2	60.4	30.3
PIST HEL (12)	1,007	127	27.2	12.6	3.4	10,265	34.4	81.0	21.1
1ENG TUR HEL (13)	231	87	19.0	37.9	7.2	18,696	29.9	213.8	23.1
MULTI-ENG TUR HEL (14)	113	60	10.9	52.9	5.8	46,835	22.8	783.5	20.1
GLIDERS (15)	2,760	1,645	6.9	59.6	4.1	159,092	17.1	96.7	15.7
LIGHTER-THAN-AIR (16)	5,497	3,602	5.7	65.5	3.8	216,633	30.2	60.1	29.6

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 15

MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
EXP-HOME BUILT (17)	12,683	6,854	5.9	54.0	3.2	298,339	9.0	43.5	6.8
EXP-EXHIBITION (18)	2,617	1,622	7.4	62.0	4.6	87,679	18.2	54.1	16.6
EXP-OTHER (19)	3,374	2,462	5.0	73.0	3.6	324,608	15.0	131.9	14.2
AEROSPAS355	98	58	28.9	59.6	17.2	16,553	32.8	283.2	15.5
AEROSPSA316	83	0	0.0	0.0	0.0	0	0.0	0.0	0.0
AGUSTAA109	71	62	9.6	87.4	8.4	9,866	33.8	158.9	32.4
AIRPTSA	184	80	17.1	43.2	7.4	2,968	32.3	37.3	27.4
AIRTRCAT300	411	358	9.0	87.1	7.8	87,114	13.1	243.4	9.6
AIRTRCAT400	248	206	10.9	83.2	9.1	74,147	15.3	359.5	10.7
AIRTRCAT500	146	134	13.1	91.8	12.0	49,429	17.4	368.8	11.4
AMDFALC10	109	104	5.2	95.0	4.9	36,638	11.2	353.9	9.9
AMDFALC20	176	162	7.0	92.2	6.5	55,905	13.9	344.6	12.0
AMDFALC50	174	116	16.5	66.6	11.0	31,065	18.6	268.0	8.6
AMRGENAG5B	119	111	6.9	92.9	6.5	31,998	20.5	289.3	19.3
ARCTICS1A	77	20	22.5	26.3	5.9	600	28.6	29.6	17.6
ARONCA15	189	151	14.1	80.0	11.3	12,507	35.8	82.8	32.9

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 15

MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
ARONCA65	584	272	17.3	46.6	8.0	7,358	28.7	27.1	22.9
ARONCAC3	91	13	39.0	14.5	5.6	199	53.6	15.1	36.8
AYRESS2 (1)	661	535	10.7	81.0	8.7	184,910	15.5	345.5	11.2
AYRESS2 (6)	122	110	12.9	90.5	11.6	35,936	30.9	325.6	28.1
BAGJETSTM	22	12	72.8	54.6	39.7	4,046	72.8	337.0	8.9
BBAVIA11	765	293	16.6	38.3	6.4	12,045	22.0	41.1	14.4
BBAVIA8	213	164	8.3	77.0	6.4	22,712	17.7	138.5	15.7
BEECH100	187	172	7.8	91.8	7.2	43,890	12.1	255.7	9.2
BEECH17	186	60	30.6	32.1	9.8	3,151	34.5	52.8	15.9
BEECH18	461	163	28.9	35.4	10.2	34,635	37.8	211.9	24.4
BEECH1900	124	68	58.3	54.6	31.8	35,508	60.4	524.7	15.7
BEECH1900D	63	17	*	27.3	31.0	10,830	*	630.0	14.6
BEECH200	744	656	7.5	88.2	6.6	212,312	11.4	323.5	8.5
BEECH23	2,439	2,037	5.4	83.5	4.5	218,747	14.2	107.4	13.1
BEECH300	234	122	22.1	52.1	11.5	36,172	25.3	297.0	12.3
BEECH33	2,069	1,815	4.0	87.7	3.5	313,540	15.8	172.7	15.3

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
BEECH35 (2)	6,257	5,198	3.8	83.1	3.1	472,961	7.7	91.0	6.7
BEECH35 (6)	92	70	20.5	76.4	15.7	13,045	43.4	185.5	38.2
BEECH36	2,393	2,150	4.1	89.9	3.7	352,909	11.3	164.1	10.5
BEECH45	341	164	21.9	48.1	10.6	16,759	30.3	102.2	21.0
BEECH50	227	88	25.5	38.7	9.9	7,388	28.0	84.2	11.5
BEECH55	2,044	1,509	8.6	73.8	6.3	184,374	13.6	122.2	10.5
BEECH56	50	33	18.5	67.0	12.4	3,534	30.7	105.5	24.5
BEECH58	1,487	1,140	7.9	76.7	6.0	223,127	15.5	195.7	13.4
BEECH60	368	315	12.1	85.6	10.4	34,613	32.9	109.8	30.6
BEECH65	100	20	*	20.1	22.3	1,789	*	88.9	25.2
BEECH76	255	210	7.1	82.3	5.8	73,278	16.9	349.3	15.3
BEECH77	207	155	14.1	74.9	10.5	14,593	26.6	94.1	22.6
BEECH80	108	76	19.5	70.4	13.8	23,010	33.7	302.7	27.4
BEECH90	1,074	887	8.8	82.6	7.2	248,519	17.3	280.1	14.9
BEECH95	409	295	9.2	72.0	6.6	62,815	22.2	213.2	20.2
BEECH99	50	27	31.7	53.1	16.8	11,682	34.8	439.8	14.4

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
BELL204	149	111	16.1	74.2	12.0	25,178	47.8	227.8	45.0
BELL206	1,464	1,129	7.8	77.1	6.0	646,082	13.2	572.5	10.7
BELL212	91	82	8.9	89.8	8.0	38,228	22.4	467.7	20.6
BELL222	74	63	10.3	85.8	8.8	22,267	18.0	350.8	14.7
BELL412	86	75	9.3	87.5	8.1	86,874	29.3	1,154.5	27.8
BELL47	1,087	375	17.0	34.5	5.9	70,308	22.7	187.3	15.0
BLANCA11	79	46	12.9	57.7	7.4	2,358	18.6	51.7	13.5
BLANCA1413	214	82	23.8	38.5	9.2	2,807	34.1	34.1	24.4
BLANCA1419	234	127	15.1	54.1	8.2	6,652	22.4	52.5	16.6
BLANCA17	928	780	7.7	84.1	6.4	79,883	27.8	102.4	26.7
BLANCA7 (1)	1,264	1,005	4.8	79.5	3.8	143,514	19.0	142.8	18.4
BLANCA7 (2)	26	7	80.6	27.6	22.2	301	82.4	41.9	17.2
BLANCA8	421	286	15.7	68.0	10.7	16,058	25.0	56.1	19.5
BLANKA/BBAV1	1,578	1,072	8.4	67.9	5.7	67,193	16.2	62.7	13.9
BNORMBN2	45	43	7.4	96.4	7.1	9,459	25.7	217.9	24.6
BOEING75	1,810	686	11.4	37.9	4.3	39,877	22.8	58.1	19.7

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
BOLKHS105	133	119	13.9	89.6	12.4	67,289	31.3	564.9	28.0
BOLKHS117	129	113	14.7	87.7	12.9	55,983	27.1	495.0	22.8
BRAERODH125	138	131	5.6	95.0	5.3	47,715	9.7	364.1	7.9
CESSNA120	785	486	11.7	61.9	7.2	27,607	18.5	56.9	14.4
CESSNA140	2,156	1,220	11.8	56.6	6.7	61,764	22.0	50.6	18.6
CESSNA150	16,518	11,789	3.5	71.4	2.5	2,111,472	7.7	179.1	6.9
CESSNA170	2,306	1,612	8.3	69.9	5.8	110,952	13.5	68.8	10.7
CESSNA172	22,386	19,046	2.0	85.1	1.7	3,209,134	7.7	168.5	7.4
CESSNA175	1,194	900	9.0	75.4	6.8	53,013	16.4	58.9	13.7
CESSNA177	2,550	2,055	5.8	80.6	4.7	244,341	13.0	118.9	11.6
CESSNA180	2,581	1,950	6.1	75.5	4.6	165,068	10.8	84.7	8.9
CESSNA182	12,762	11,082	2.3	86.8	2.0	1,212,230	7.3	109.4	6.9
CESSNA185	1,499	1,133	6.6	75.6	5.0	156,399	16.5	138.0	15.1
CESSNA188	1,326	842	11.0	63.5	7.0	150,878	16.0	179.1	11.6
CESSNA190	74	29	29.3	38.6	11.3	800	40.7	28.0	28.2
CESSNA195	465	278	14.0	59.7	8.4	15,650	18.9	56.3	12.6

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
CESSNA205	219	184	6.7	83.9	5.6	16,130	15.3	87.8	13.7
CESSNA206	2,279	1,682	8.2	73.8	6.1	252,522	16.2	150.2	14.0
CESSNA207	148	104	31.6	70.3	22.2	72,062	53.0	692.2	42.6
CESSNA208	311	286	12.7	91.8	11.7	122,118	18.2	427.7	13.1
CESSNA210	5,180	4,436	3.8	85.6	3.2	641,574	9.0	144.6	8.2
CESSNA303	101	82	12.9	81.5	10.5	25,875	26.2	314.2	22.8
CESSNA305	278	139	16.4	49.9	8.2	12,683	22.6	91.5	15.6
CESSNA310	2,689	2,098	7.0	78.0	5.5	291,953	15.5	139.1	13.8
CESSNA320	223	121	18.1	54.3	9.8	14,098	25.6	116.4	18.1
CESSNA336	60	27	20.5	44.8	9.2	1,949	31.5	72.4	23.9
CESSNA337	856	574	13.3	67.1	8.9	43,063	18.8	75.0	13.4
CESSNA340	824	679	9.9	82.5	8.2	116,076	14.7	170.8	10.8
CESSNA401	153	130	10.8	84.8	9.2	15,912	27.5	122.6	25.2
CESSNA402	422	254	21.5	60.3	12.9	77,459	27.6	304.5	17.3
CESSNA421	974	971	1.2	99.7	1.2	130,534	14.8	134.5	14.8
CESSNA425	157	144	7.1	91.8	6.5	33,186	14.8	230.2	13.0

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
CESSNA441	199	143	15.4	71.7	11.1	41,182	19.2	288.4	11.3
CESSNA500	818	684	9.6	83.6	8.0	187,145	14.0	273.8	10.2
CESSNA501	262	240	7.6	91.6	7.0	52,348	14.3	218.1	12.1
CESSNA650	180	150	11.1	83.4	9.3	53,387	15.0	355.7	10.1
CESSNA750	63	15	19.8	23.3	4.6	460	25.7	31.4	16.4
CHILDS1	241	188	9.7	78.1	7.5	14,244	14.4	75.7	10.7
CHILDS2	107	73	14.6	68.0	9.9	4,654	26.2	64.0	21.8
CHRISHUSKY	95	79	8.8	82.8	7.3	11,059	21.5	140.7	19.7
CNDALRCL600	180	161	9.2	89.5	8.3	55,497	12.7	344.5	8.7
COMWTH185	80	32	23.4	39.9	9.3	1,008	32.7	31.6	22.8
CONAERLA4	391	335	7.0	85.7	6.0	22,584	16.0	67.4	14.4
CURTISTRVAIR	179	24	28.3	13.6	3.8	1,431	36.6	59.0	23.2
CVACBT/L13	139	49	19.6	35.0	6.8	2,047	27.1	42.1	18.8
DHAVDH82	65	45	13.1	69.5	9.1	1,051	22.2	23.3	17.9
DHAVDHC2	284	158	14.0	55.6	7.8	39,419	18.7	249.6	12.5
DHAVDHC6	77	24	43.6	31.5	13.7	11,763	48.0	485.7	20.1

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
DOUGDC3	188	93	28.5	49.6	14.1	15,502	46.8	166.2	37.1
EAGLEBAL	67	31	15.7	46.2	7.2	5,301	17.7	171.2	8.2
EMB110	44	7	51.8	17.0	8.8	2,149	56.6	286.7	22.9
ENSTRMF28 (12)	235	115	13.4	49.1	6.6	13,548	30.0	117.5	26.8
ENSTRMF28 (13)	102	81	6.6	79.2	5.2	14,070	23.8	174.2	22.9
FRCHLD24	232	46	28.1	19.7	5.5	1,857	35.5	40.6	21.7
FRCHLDN62	225	52	27.8	23.0	6.4	2,294	33.4	44.4	18.5
GRUMAVAA1	434	325	13.3	74.9	9.9	19,196	19.4	59.0	14.1
GRUMAVAA5	973	895	5.3	92.0	4.9	102,071	17.6	114.0	16.7
GRUMAVG164	484	252	26.5	52.1	13.8	87,965	29.5	348.8	12.8
GRUMAVG21	49	33	22.8	66.6	15.2	2,737	49.7	83.9	44.2
GULSTM112	586	492	7.7	84.0	6.5	52,520	14.8	106.7	12.6
GULSTM500	266	254	4.4	95.4	4.2	41,806	19.6	164.7	19.1
GULSTM560	77	70	14.1	90.7	12.8	6,026	54.6	86.3	52.8
GULSTM680	156	115	16.9	73.6	12.4	15,526	27.7	135.3	21.9
GULSTM680TP	55	39	26.1	70.2	18.3	5,766	46.4	149.4	38.4

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
GULSTM690TP	312	258	11.0	82.6	9.1	44,980	19.2	174.4	15.7
GULSTMAA1	497	412	7.0	82.9	5.8	24,446	14.8	59.4	13.0
GULSTMAA5	927	758	8.7	81.8	7.1	102,241	26.2	134.8	24.7
GULSTMG1159	459	344	16.7	74.9	12.5	141,507	21.9	411.7	14.2
GULSTMG159	69	36	25.3	52.9	13.4	9,674	28.7	265.1	13.5
GULSTMG44	80	50	14.0	62.0	8.7	4,556	27.0	91.8	23.0
GULSTMGA7	51	42	10.4	81.5	8.5	4,772	21.6	114.8	19.0
HELIOH295	85	57	14.5	67.3	9.8	6,055	32.4	105.8	28.9
HILLERUH12	404	145	20.6	36.0	7.4	24,210	25.6	166.5	15.2
HUGHES269	552	280	19.3	50.8	9.8	69,394	26.9	247.7	18.7
HUGHES369 (12)	102	75	13.8	74.5	10.3	25,578	24.4	336.7	20.1
HUGHES369 (13)	587	450	11.9	76.6	9.1	195,143	20.4	434.1	16.6
HWKSLYDH125	350	319	6.3	91.1	5.7	82,963	15.9	260.2	14.6
HYNESB2	110	18	44.0	16.8	7.4	692	46.2	37.6	14.2
INTRCP200	52	29	20.0	56.7	11.3	1,939	25.0	65.8	15.0
ISRAEL1121	51	27	33.1	53.8	17.8	2,245	33.3	81.8	3.4

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
ISRAEL1124	250	235	6.6	94.2	6.3	75,510	16.3	320.7	14.8
JBMSTRDGA15	86	21	25.3	24.6	6.2	1,892	33.0	89.6	21.2
LEAR24	107	90	14.8	83.8	12.4	30,304	30.5	338.0	26.7
LEAR25	112	103	11.2	92.1	10.4	37,464	22.5	363.2	19.5
LEAR35	446	422	6.3	94.6	6.0	146,810	14.1	348.0	12.6
LEAR55	101	96	8.0	95.0	7.6	39,103	15.9	407.7	13.7
LKHEED1329	71	40	24.1	55.8	13.5	6,344	28.0	160.0	14.1
LUSCOM8	1,904	837	14.4	44.0	6.3	39,702	20.8	47.4	14.9
MAULEM4	247	189	9.8	76.4	7.5	14,077	19.2	74.6	16.5
MAULEM5	439	397	7.3	90.5	6.6	37,661	45.6	94.8	45.0
MAULEM6	87	80	9.4	92.3	8.6	8,385	33.7	104.4	32.3
MAULEM7	123	114	4.8	92.7	4.4	11,718	14.3	102.8	13.5
MCLISHFUNKB	136	57	17.3	41.9	7.3	1,659	23.2	29.1	15.3
MILITARY204	162	60	14.5	36.9	5.4	13,486	17.2	225.5	9.3
MNCOUP90	50	11	24.6	22.6	5.6	219	31.8	19.4	20.2
MNNITEM18	118	53	25.1	44.9	11.3	2,579	41.5	48.7	33.1

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
MOONEYM20	6,012	5,194	3.2	86.4	2.8	643,214	8.5	123.8	7.9
MTBSIMU2	356	204	25.4	57.2	14.6	38,399	31.5	188.4	18.7
MTBSIMU300	70	64	7.6	91.2	6.9	12,887	15.2	202.0	13.2
NAMERT28	184	92	19.0	50.1	9.5	3,771	22.8	40.9	12.5
NAMERT6	202	129	18.6	64.0	11.9	5,433	26.5	42.0	18.8
NAVIONNAVION	1,107	724	9.9	65.4	6.5	38,683	15.7	53.4	12.2
NORUST65	63	40	21.6	62.8	13.6	2,860	35.1	72.2	27.6
PIPER600	363	299	11.0	82.4	9.1	42,900	15.9	143.3	11.5
PIPER602	258	211	11.5	81.9	9.4	31,394	17.1	148.6	12.6
PIPERJ3	3,981	2,029	8.0	51.0	4.1	87,975	15.1	43.4	12.8
PIPERJ4	210	44	23.6	21.0	5.0	1,630	30.4	36.9	19.2
PIPERJ5	288	140	14.4	48.6	7.0	5,812	30.0	41.5	26.3
PIPERPA14	96	45	54.1	46.4	25.1	2,427	*	54.5	96.1
PIPERPA15	163	81	18.5	50.0	9.3	2,654	22.7	32.6	13.1
PIPERPA16	320	113	31.0	35.3	10.9	6,122	36.2	54.2	18.7
PIPERPA17	96	59	15.0	61.3	9.2	2,496	28.1	42.4	23.7

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
PIPERPA18	3,430	2,127	9.8	62.0	6.1	178,578	21.8	84.0	19.5
PIPERPA20	416	254	15.1	61.1	9.2	11,124	25.9	43.7	21.1
PIPERPA22 (1)	863	562	14.5	65.1	9.4	37,492	31.0	66.7	27.4
PIPERPA22 (2)	3,341	2,030	8.4	60.8	5.1	120,009	12.8	59.1	9.6
PIPERPA23	2,795	1,717	10.4	61.4	6.4	209,126	15.0	121.8	10.8
PIPERPA24	2,886	2,499	4.4	86.6	3.8	217,183	9.1	86.9	8.0
PIPERPA25	952	665	10.1	69.9	7.1	82,611	16.5	124.1	13.0
PIPERPA28 (1)	5,597	4,222	4.8	75.4	3.6	345,964	11.0	81.9	9.9
PIPERPA28 (2)	14,499	12,752	2.1	87.9	1.8	1,953,971	8.0	153.2	7.7
PIPERPA30	1,127	883	7.8	78.3	6.1	110,456	14.2	125.2	11.9
PIPERPA31 (3)	117	90	13.8	76.5	10.6	8,377	33.3	93.6	30.2
PIPERPA31 (4)	755	722	4.5	95.6	4.3	170,822	15.8	236.6	15.2
PIPERPA31T	450	374	10.1	83.1	8.4	90,395	16.6	241.8	13.2
PIPERPA32	3,812	3,210	4.6	84.2	3.9	530,436	11.7	165.2	10.8
PIPERPA34	1,507	1,444	3.5	95.8	3.4	197,735	12.5	137.0	12.0
PIPERPA36	260	215	14.7	82.9	12.2	44,495	21.4	206.5	15.5

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
PIPERPA38	972	744	10.0	76.5	7.7	191,500	24.3	257.4	22.2
PIPERPA42	87	74	11.2	84.7	9.5	15,998	15.7	217.0	11.0
PIPERPA44	271	233	11.4	85.9	9.8	92,073	20.3	395.6	16.8
PIPERPA46	374	351	5.0	93.8	4.7	65,688	11.2	187.1	10.0
RKWEALLNA265	260	212	9.6	81.4	7.8	36,303	16.7	171.6	13.6
ROBSINR22	660	470	6.9	71.2	4.9	150,408	12.2	319.9	10.1
SCWZERG164	792	397	26.0	50.2	13.0	101,531	29.2	255.5	13.4
SKRSKYS58	57	9	86.6	15.6	13.5	548	88.0	61.6	16.0
SKRSKYS76	111	87	23.7	78.3	18.6	45,708	32.0	525.7	21.5
SLINDS100	269	211	12.4	78.4	9.7	9,917	22.8	47.0	19.2
SNIAS350	262	228	9.5	86.9	8.3	159,951	23.2	702.3	21.2
SOCATATB10	59	53	9.4	90.4	8.5	7,288	23.2	136.6	21.2
SOCATATB20	163	119	19.6	73.0	14.3	19,257	25.6	161.9	16.4
STNSON10	132	20	28.0	14.8	4.2	755	32.2	38.6	15.9
STNSONL5	118	39	16.8	33.0	5.5	1,800	35.6	46.2	31.4
STNSONV77	108	34	23.9	31.2	7.5	937	27.3	27.8	13.1

2.2 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 15 OF 15

MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
STOLAMRC3	206	74	17.2	35.8	6.2	3,148	25.7	42.7	19.1
SHRNGNSA226	141	91	11.1	64.7	7.2	22,975	14.9	251.9	10.0
SHRNGNSA227	118	58	46.3	48.8	22.6	20,476	58.7	355.8	36.1
SHRNGNSA26	65	58	13.8	88.6	12.2	7,366	33.1	128.0	30.1
TCRAFKD	272	92	15.7	33.7	5.3	3,858	18.4	42.0	9.7
TCRAFT19	110	85	9.6	77.5	7.5	5,993	15.6	70.3	12.3
TCRAFTBC	1,673	760	14.8	45.4	6.7	36,381	18.2	47.9	10.7
TCRAFTBL	194	69	13.8	35.7	4.9	2,222	20.1	32.1	14.6
TH55	60	29	15.6	48.5	7.5	5,149	25.8	176.9	20.6
UNIVACGC1	451	197	17.7	43.7	7.7	8,936	22.3	45.3	13.5
UNIVAR108	1,803	764	12.8	42.4	5.4	38,087	17.2	49.9	11.5
UNIVAR415	2,171	1,157	11.8	53.3	6.3	39,361	17.1	34.0	12.4
VARGA2150	123	101	11.4	81.7	9.4	4,905	20.3	48.8	16.8
WACO	563	205	15.7	36.4	5.7	7,307	34.1	34.8	27.6
WTHRLY201	53	35	20.6	65.7	13.5	6,822	25.0	195.9	14.1
TOTAL	245,971	176,006	0.7	71.6	0.5	24,339,884	1.8	134.4	1.8

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES. AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A STANDARD ERROR OF 100.0 OR GREATER. NUMBER IN PARENTHESIS FOLLOWING GROUP NAME INDICATES THE AIRCRAFT TYPE TO WHICH THESE AIRCRAFT BELONG. SEE THE FOLLOWING PAGE FOR A DESCRIPTION OF THESE AIRCRAFT TYPES. FOR ADDITIONAL INFORMATION SEE APPENDIX B FOR AIRCRAFT GROUP NAMES AND FAA MANUFACTURER/MODEL CODES.

AIRCRAFT DEFINITIONS AND TYPES USED FOR THE GENERAL AVIATION SURVEY

AIRCRAFT TYPE DEFINITION	AIRCRAFT TYPE
FIXED-WING PISTON: 1 ENGINE - 1-3 SEATS	(1)
FIXED-WING PISTON: 1 ENGINE 4 + SEATS	(2)
FIXED-WING PISTON: 2 ENGINE - 1-6 SEATS	(3)
FIXED-WING PISTON: 2 ENGINE - 7 + SEATS	(4)
FIXED-WING PISTON: OTHER	(5)
FIXED WING-TURBOPROP: 1 ENGINE	(6)
FIXED WING-TURBOPROP: 2 ENGINE - 1-12 SEATS	(7)
FIXED WING-TURBOPROP: 2 ENGINE - 13 + SEATS	(8)
FIXED WING-TURBOPROP: OTHER	(9)
FIXED WING - TURBOJET: 2 ENG	(10)
FIXED WING - TURBOJET: OTHER	(11)
ROTORCRAFT: PISTON	(12)
ROTORCRAFT: 1 ENGINE - TURBINE	(13)
ROTORCRAFT: MULTI-ENGINE - TURBINE	(14)
OTHER AIRCRAFT: GLIDERS	(15)
OTHER AIRCRAFT: LIGHTER-THAN-AIR	(16)
OTHER AIRCRAFT: EXPERIMENTAL - HOME BUILT	(17)
OTHER AIRCRAFT: EXPERIMENTAL - EXHIBITION	(18)
OTHER AIRCRAFT: EXPERIMENTAL - OTHER	(19)

2.3 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 1

REGION	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
ALASKAN	7,772	5,410	7.2	69.6	6.4	698,743	8.8	116.0	10.9
CENTRAL	15,635	10,517	6.0	67.3	5.1	1,391,444	7.6	129.7	7.5
EASTERN	29,428	21,222	4.1	72.1	3.8	2,526,959	5.0	115.5	4.6
GREAT LAKES	45,006	32,424	3.2	72.0	2.9	3,791,169	4.0	112.3	3.7
NEW ENGLAND	11,024	7,160	7.4	65.0	6.1	905,054	9.1	123.8	6.2
NORTHWEST MT	26,500	18,259	4.4	68.9	3.9	2,402,570	5.8	129.0	5.2
SOUTHERN	40,475	28,544	3.4	70.5	3.1	4,432,377	4.4	152.9	5.1
SOUTHWESTERN	30,598	22,868	3.8	74.7	3.7	3,552,344	4.8	152.2	5.5
WESTERN-PACIFIC	39,528	29,598	3.3	74.9	3.2	4,636,476	4.1	151.6	5.2
TOTAL	245,971	176,006	0.7	71.6	0.5	24,339,888	1.8	134.4	1.8

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

2.4 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 4

STATE	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
ALABAMA	4,102	2,736	11.4	66.7	9.8	335,637	13.1	119.4	10.2
ALASKA	7,773	5,410	6.7	69.6	6.2	698,743	8.8	116.0	10.9
ARIZONA	5,979	4,111	9.0	68.8	8.1	879,235	11.7	209.7	10.2
ARKANSAS	3,345	2,415	11.7	72.2	11.2	358,628	14.6	142.7	12.7
CALIFORNIA	30,298	23,279	3.6	76.8	3.7	3,313,572	4.1	137.9	6.2
COLORADO	5,093	3,855	9.5	75.7	9.6	601,195	14.0	156.2	12.0
CONNECTICUT	2,112	1,477	15.5	69.9	14.2	198,364	20.8	127.0	13.9
DELAWARE	1,934	1,332	15.4	68.9	13.9	229,341	21.6	169.9	15.0
DIST. OF COLUMBIA	50	24	*	48.7	66.3	6,988	*	287.0	12.4
FLORIDA	13,886	10,498	5.5	75.6	5.6	1,911,928	6.9	181.6	10.3
GEORGIA	4,988	3,796	9.5	76.1	9.7	444,482	10.5	113.8	9.2
HAWAII	641	312	29.8	48.7	17.6	140,053	42.2	431.4	26.8
IDAHO	2,531	1,797	13.5	71.0	12.6	216,488	17.3	111.7	12.7
ILLINOIS	8,149	6,160	7.5	75.6	7.5	834,113	9.1	132.7	8.7
INDIANA	4,941	3,753	9.5	75.9	9.7	528,359	11.2	132.8	9.2
IOWA	3,421	2,328	12.3	68.0	10.9	249,358	15.2	103.6	11.7
KANSAS	4,054	2,953	10.7	72.8	10.4	415,885	13.2	138.8	14.5

2.4 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
KENTUCKY	2,609	1,476	15.6	56.6	11.1	206,733	18.0	140.0	13.0
LOUISIANA	3,424	2,255	12.2	65.8	10.4	536,356	15.1	229.5	13.1
MAINE	1,396	1,029	18.8	73.7	18.4	116,391	24.2	111.0	11.9
MARYLAND	3,301	2,299	12.2	69.7	11.2	285,205	14.5	122.2	12.7
MASSACHUSETTS	3,377	2,691	11.6	79.7	12.6	380,710	14.9	139.7	12.1
MICHIGAN	7,693	6,150	7.5	79.9	8.1	675,316	8.6	104.9	8.2
MINNESOTA	6,954	4,583	8.5	65.9	7.3	528,286	12.1	110.7	11.8
MISSISSIPPI	2,348	1,469	15.0	62.6	12.1	289,229	20.9	197.4	24.0
MISSOURI	5,458	3,494	10.0	64.0	8.2	540,945	13.8	152.5	13.8
MONTANA	2,405	1,808	13.9	75.2	14.0	191,793	16.7	102.4	12.4
NEBRASKA	2,702	1,743	13.8	64.5	11.4	185,255	17.1	102.7	9.9
NEVADA	2,502	1,838	13.1	73.5	12.7	267,538	19.7	143.5	19.0
NEW HAMPSHIRE	2,124	1,216	16.4	57.2	11.9	131,486	19.1	106.9	10.6
NEW JERSEY	4,128	3,434	10.0	83.2	11.5	470,106	11.6	133.2	10.7
NEW MEXICO	2,865	2,120	12.5	74.0	12.2	246,609	17.5	116.4	14.0
NEW YORK	7,397	5,371	8.0	72.6	7.7	516,503	9.4	93.5	9.8
NORTH CAROLINA	5,015	3,782	9.5	75.4	9.6	480,240	11.5	120.4	8.3

2.4 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
NORTH DAKOTA	2,304	1,322	15.9	57.4	11.6	173,485	20.7	130.2	16.5
OHIO	7,629	5,620	7.8	73.7	7.7	593,169	8.9	101.8	8.6
OKLAHOMA	4,602	3,135	10.6	68.1	9.4	457,532	13.6	143.9	13.3
OREGON	5,667	3,789	9.4	66.9	8.2	469,205	11.2	117.3	9.6
PENNSYLVANIA	6,898	5,145	8.1	74.6	8.1	547,988	10.5	102.5	10.1
RHODE ISLAND	910	284	36.3	31.2	13.2	33,512	41.9	117.2	9.2
SOUTH CAROLINA	2,542	1,641	14.6	64.5	12.2	331,125	20.5	202.5	17.1
SOUTH DAKOTA	2,015	1,001	18.2	49.7	11.1	122,770	26.0	115.8	12.5
TENNESSEE	3,846	2,766	11.5	71.9	10.9	382,349	14.1	129.6	11.1
TEXAS	16,363	12,944	4.9	79.1	5.3	1,953,218	6.0	148.7	8.4
UTAH	2,307	1,041	18.3	45.1	10.1	167,152	23.6	160.7	17.8
VERMONT	1,106	464	27.2	41.9	13.5	44,589	37.7	96.6	20.1
VIRGINIA	4,057	2,764	11.1	68.1	9.8	385,337	13.9	136.0	10.6
WASHINGTON	7,107	5,326	7.9	74.9	7.9	687,720	10.6	129.0	10.8
WEST VIRGINIA	1,664	852	21.1	51.2	13.5	85,489	26.2	94.5	14.0
WISCONSIN	5,322	3,836	9.5	72.1	9.1	335,668	11.9	82.2	8.9
WYOMING	1,391	645	22.6	46.4	12.9	69,015	28.1	105.7	14.4

2.4 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
PUERTO RICO	1,041	305	32.8	29.3	11.2	50,650	39.4	161.8	11.1
OTHER U.S. TERRITORIES	206	134	38.8	65.3	33.3	36,076	54.3	268.1	24.9
TOTAL	245,971	176,006	.7	71.6	.5	24,337,119	11.4	134.4	1.8

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT OF STANDARD ERROR OF 100.0 OR GREATER.

2.5 1993 GENERAL AVIATION TOTAL NUMBER OF LANDINGS BY REGION OF BASED AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
FIXED WING										
FIXED WING - PISTON										
1 ENG: 1-3 SEATS	219,437	470,500	1,007,106	1,556,421	674,567	897,280	1,438,738	1,622,743	1,300,664	9,187,456
% STD. ERROR	29.9	17.8	20.2	15.4	33.0	20.7	22.1	17.1	17.5	7.1
1 ENG: 4+ SEATS	535,149	726,032	1,509,029	2,228,897	618,315	1,569,883	2,335,635	1,654,673	2,959,700	14,137,313
% STD. ERROR	22.1	16.3	11.6	11.6	15.5	12.9	10.9	13.1	13.6	4.7
1 ENGINE: TOTAL	754,586	1,196,532	2,516,135	3,785,318	1,292,882	2,467,163	3,774,373	3,277,416	4,260,364	23,324,769
% STD. ERROR	17.9	12.1	10.6	9.3	18.8	11.1	10.8	10.7	10.9	4.0
2 ENG: 1-6 SEATS	9,848	89,097	155,960	287,988	49,658	86,373	402,630	147,935	277,313	1,506,802
% STD. ERROR	64.9	33.5	19.3	21.4	39.4	27.7	19.0	25.9	19.1	8.6
2 ENG: 7+ SEATS	14,363	28,182	55,176	153,191	36,956	104,445	160,287	116,393	147,598	816,591
% STD. ERROR	74.8	44.8	39.5	31.3	54.7	39.2	23.8	27.5	31.8	12.1
2 ENGINE: TOTAL	24,211	117,279	211,136	441,179	86,614	190,818	562,917	264,328	424,911	2,323,393
% STD. ERROR	51.6	27.6	17.6	17.7	32.5	24.9	15.2	18.9	16.7	7.0
PISTON: OTHER	0	81	74	24	0	0	0	0	959	1,138
% STD. ERROR	0.0	*	*	*	0.0	0.0	0.0	0.0	67.2	72.7
PISTON: TOTAL	778,797	1,313,892	2,727,345	4,226,521	1,379,496	2,657,981	4,337,290	3,541,744	4,686,234	25,649,300
% STD. ERROR	17.4	11.3	9.9	8.6	17.7	10.5	9.6	10.0	10.0	3.7
FIXED WING- TURBOPROP										
1 ENGINE: TOTAL	0	5,088	2,557	4,710	339	56,144	113,520	153,447	73,204	409,009
% STD. ERROR	0.0	*	73.7	*	*	66.3	54.1	48.5	55.0	27.3
2 ENG: 1-12 SEATS	0	53,826	70,263	170,061	20,039	32,125	157,224	225,254	51,409	780,201
% STD. ERROR	0.0	30.4	32.3	22.4	55.6	33.7	19.2	29.8	35.2	11.6
2 ENG: 13+ SEATS	1,466	1,461	9,775	33,943	2,599	10,248	24,782	3,682	19,250	107,206
% STD. ERROR	75.1	83.9	34.1	30.7	*	61.3	30.6	79.3	49.2	16.8

2.5 1993 GENERAL AVIATION TOTAL NUMBER OF LANDINGS BY REGION OF BASED AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 3

AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
2 ENGINE: TOTAL	1,466	55,287	80,038	204,004	22,638	42,373	182,006	228,936	70,659	887,407
% STD. ERROR	75.1	29.7	28.7	19.4	50.6	29.5	17.1	29.3	28.9	10.4
TURBOPROP: OTHER	0	0	241	0	0	0	0	0	2,556	2,797
% STD. ERROR	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	29.3	31.0
TURBOPROP: TOTAL	1,466	60,375	82,836	208,714	22,977	98,517	295,526	382,383	146,419	1,299,213
% STD. ERROR	75.1	30.4	27.8	19.1	50.0	39.9	23.3	26.2	30.8	11.1
FIXED WING - TURBOJET										
2 ENGINE: TOTAL	886	64,993	108,730	242,338	14,153	65,891	121,427	134,043	86,760	839,221
% STD. ERROR	*	32.2	25.3	16.4	59.9	27.8	18.4	21.3	25.7	8.4
TURBOJET: OTHER	120	1,867	5,120	6,179	1,030	1,462	6,579	4,069	1,084	27,510
% STD. ERROR	*	61.3	33.3	36.3	87.4	86.9	91.7	48.0	77.2	26.4
TURBOJET: TOTAL	1,006	66,860	113,850	248,517	15,183	67,353	128,006	138,112	87,844	866,731
% STD. ERROR	*	31.4	24.2	16.0	56.1	27.3	18.1	20.7	25.4	8.2
FIXED WING: TOTAL	781,269	1,441,127	2,924,031	4,683,752	1,417,656	2,823,851	4,760,822	4,062,239	4,920,497	27,815,244
% STD. ERROR	17.4	10.5	9.3	7.8	17.2	10.0	8.9	9.1	9.6	3.5
ROTORCRAFT										
PISTON: TOTAL	22,866	14,587	121,805	51,373	20,425	88,012	159,120	227,823	503,412	1,209,423
% STD. ERROR	*	53.5	42.6	40.7	60.9	50.9	38.2	62.8	19.7	16.5
1 ENG: TURBINE	101,958	167,746	221,745	89,463	7,816	251,966	209,329	27,707	690,459	1,768,189
% STD. ERROR	74.7	70.3	43.8	47.0	70.8	46.4	41.0	78.5	30.0	17.5
MULTI-ENG: TURBINE	116,680	26,815	189,548	202,753	18,685	57,013	100,659	23,053	129,011	864,217
% STD. ERROR	54.4	*	36.1	46.3	70.4	55.4	53.1	73.0	65.4	20.3
TURBINE: TOTAL	218,638	194,561	411,293	292,216	26,501	308,979	309,988	50,760	819,470	2,632,406
% STD. ERROR	45.3	64.7	28.9	35.2	53.8	39.2	32.6	54.2	27.3	13.5
ROTORCRAFT: TOTAL	1,022,773	1,650,275	3,457,129	5,027,341	1,464,582	3,220,842	5,229,930	4,340,822	6,243,379	31,657,073
% STD. ERROR	16.6	11.9	8.7	7.6	16.7	9.6	8.4	9.2	8.5	3.3

2.5 1993 GENERAL AVIATION TOTAL NUMBER OF LANDINGS BY REGION OF BASED AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
OTHER AIRCRAFT										
GLIDERS:	2	2,750	11,946	39,893	12,857	14,429	70,663	9,453	130,263	292,256
% STD. ERROR	*	*	58.5	46.2	60.0	59.9	85.5	65.4	53.2	32.5
LIGHTER-THAN-AIR:	147	11,558	25,853	27,161	4,607	29,960	82,840	42,499	68,274	292,899
% STD. ERROR	*	76.7	61.1	56.0	*	51.0	55.4	57.8	44.4	22.8
EXPERIMENTAL:										
HOME BUILT:	1,297	20,917	39,463	118,348	8,547	64,962	76,366	42,187	122,287	494,374
% STD. ERROR	*	66.4	57.5	27.4	87.2	39.8	42.0	76.0	45.3	17.7
EXHIBITION:	0	3,616	5,965	5,766	1,011	7,172	5,551	15,000	17,389	61,470
% STD. ERROR	0.0	*	*	*	*	*	*	68.8	*	48.7
OTHER:	42,228	31,648	38,752	39,061	12,772	64,398	76,855	33,938	48,856	388,508
% STD. ERROR	86.1	56.2	64.6	45.3	72.1	60.2	50.9	78.6	66.7	22.2
TOTAL ALL AIRCRAFT	1,066,447	1,720,764	3,579,108	5,257,570	1,504,376	3,401,763	5,542,205	4,483,899	6,630,448	33,186,580
% STD. ERROR	16.3	11.5	8.5	7.3	16.3	9.2	8.1	8.9	8.2	3.2

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN THE % STD. ERROR COLUMN INDICATES A STANDARD ERROR OF 100.0 OR GREATER.

2.6 1993 GENERAL AVIATION NUMBER OF LANDINGS IN LOCAL FLIGHT BY REGION OF BASED AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
FIXED WING										
FIXED WING - PISTON										
1 ENG: 1-3 SEATS	164,788	412,081	825,860	1,317,977	498,300	778,598	1,161,630	1,449,229	1,090,379	7,698,842
% STD. ERROR	32.8	18.6	21.3	16.1	33.8	21.6	18.9	18.0	19.1	7.1
1 ENG: 4+ SEATS	196,933	474,855	971,200	1,564,154	401,978	1,037,058	1,521,470	1,039,254	1,708,364	8,915,266
% STD. ERROR	19.0	19.9	14.0	14.6	18.0	15.2	13.2	17.8	18.5	6.0
1 ENGINE: TOTAL	361,721	886,936	1,797,060	2,882,131	900,278	1,815,656	2,683,100	2,488,483	2,798,743	16,614,108
% STD. ERROR	18.2	13.7	12.4	10.8	20.4	12.7	11.1	12.8	13.5	4.6
2 ENG: 1-6 SEATS	3,088	24,607	60,823	104,329	20,217	28,167	176,195	55,311	134,053	606,790
% STD. ERROR	67.3	51.3	35.1	27.2	50.9	57.8	31.0	40.1	27.5	13.4
2 ENG: 7+ SEATS	192	4,744	5,568	14,943	9,652	11,636	46,973	18,139	37,303	149,150
% STD. ERROR	*	*	*	86.2	*	76.8	51.7	*	60.3	30.6
2 ENGINE: TOTAL	3,280	29,351	66,391	119,272	29,869	39,803	223,168	73,450	171,356	755,940
% STD. ERROR	65.2	53.6	35.2	26.1	47.9	46.7	26.8	42.1	25.2	12.4
PISTON: OTHER	0	32	56	14	0	0	0	0	178	280
% STD. ERROR	0.0	*	*	*	0.0	0.0	0.0	0.0	*	*
PISTON: TOTAL	365,001	916,319	1,863,507	3,001,417	930,147	1,855,459	2,906,268	2,561,933	2,970,277	17,370,328
% STD. ERROR	18.0	13.4	12.0	10.4	19.8	12.5	10.5	12.5	12.8	4.4
FIXED WING- TURBOPROP										
1 ENGINE: TOTAL	0	4,949	914	3,537	93	10,396	21,417	151,566	67,141	260,013
% STD. ERROR	0.0	*	98.4	*	*	82.5	74.0	50.8	60.5	34.4
2 ENG: 1-12 SEATS	0	3,889	5,271	14,898	821	2,051	11,393	5,873	8,257	52,453
% STD. ERROR	0.0	*	*	*	*	*	*	*	*	60.6
2 ENG: 13+ SEATS	0	128	763	878	604	298	3,255	322	11,035	17,283
% STD. ERROR	0.0	*	70.5	*	*	*	*	*	79.2	56.6

2.6 1993 GENERAL AVIATION NUMBER OF LANDINGS IN LOCAL FLIGHT BY REGION OF BASED AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
2 ENGINE: TOTAL	0	4,017	6,034	15,776	1,425	2,349	14,648	6,195	19,292	69,736
% STD. ERROR	0.0	*	*	*	*	*	85.9	*	69.4	47.7
TURBOPROP: OTHER	0	0	186	0	0	0	0	0	210	396
% STD. ERROR	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	*	*
TURBOPROP: TOTAL	0	8,966	7,134	19,313	1,518	12,745	36,065	157,761	86,643	330,145
% STD. ERROR	0.0	*	87.1	87.0	*	72.6	56.1	50.6	49.4	28.9
FIXED WING - TURBOJET										
2 ENGINE: TOTAL	16	3,785	6,472	6,248	3,433	4,951	1,867	13,362	17,224	57,358
% STD. ERROR	*	*	82.0	*	*	*	*	59.3	71.7	38.5
TURBOJET: OTHER	23	29	203	193	56	90	819	22	238	1,673
% STD. ERROR	*	*	*	*	*	*	*	*	*	*
TURBOJET: TOTAL	39	3,814	6,675	6,441	3,489	5,041	2,686	13,384	17,462	59,031
% STD. ERROR	*	*	79.8	*	*	*	*	59.2	70.8	37.6
FIXED WING: TOTAL	365,040	929,099	1,877,316	3,027,171	935,154	1,873,245	2,945,019	2,733,078	3,074,382	17,759,504
% STD. ERROR	18.0	13.3	11.9	10.4	19.7	12.4	10.3	12.1	12.5	4.4
ROTORCRAFT										
PISTON: TOTAL	19,649	12,764	111,900	49,012	18,205	82,601	145,334	224,062	449,421	1,112,948
% STD. ERROR	*	59.3	44.1	40.7	63.6	53.3	40.5	64.7	20.2	17.5
1 ENG: TURBINE	25,443	108,776	100,709	54,936	4,548	167,154	107,890	14,604	569,738	1,153,798
% STD. ERROR	89.0	70.6	46.4	52.9	84.3	48.4	53.3	92.3	33.6	20.5
MULTI-ENG: TURBINE	25,229	16,184	81,215	58,858	9,423	44,087	60,062	12,600	116,350	424,008
% STD. ERROR	49.0	*	40.0	42.3	92.5	55.3	57.5	57.4	65.6	23.9
TURBINE: TOTAL	50,672	124,960	181,924	113,794	13,971	211,241	167,952	27,204	686,088	1,577,806
% STD. ERROR	50.9	65.0	31.3	33.6	68.1	40.0	39.9	56.2	30.1	16.3
ROTORCRAFT: TOTAL	435,361	1,066,823	2,171,140	3,189,977	967,330	2,167,087	3,258,305	2,984,344	4,209,891	20,450,258
% STD. ERROR	16.9	13.8	10.9	9.9	19.1	11.6	9.7	12.1	10.6	4.1

2.6 1993 GENERAL AVIATION NUMBER OF LANDINGS IN LOCAL FLIGHT BY REGION OF BASED AIRCRAFT
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AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
OTHER AIRCRAFT										
GLIDERS:	1	2,735	11,242	38,563	12,776	12,553	67,209	8,751	125,587	279,417
% STD. ERROR	*	*	54.4	45.4	58.8	53.5	85.7	64.6	55.7	33.4
LIGHTER-THAN-AIR:	147	8,335	23,875	27,071	3,769	29,869	66,850	40,215	67,816	267,947
% STD. ERROR	*	67.4	44.1	39.8	*	43.6	56.7	44.5	36.1	19.7
EXPERIMENTAL:										
HOME BUILT:	1,297	18,933	32,317	99,677	6,388	51,453	63,475	34,351	99,571	407,462
% STD. ERROR	*	54.6	48.3	24.1	85.6	37.9	37.6	70.0	46.8	16.8
EXHIBITION:	0	3,053	4,887	3,691	829	5,633	3,452	13,846	13,412	48,803
% STD. ERROR	0.0	*	94.5	*	*	*	*	62.6	*	44.6
OTHER:	20,670	29,162	20,873	30,176	6,039	42,809	38,557	17,229	35,446	240,961
% STD. ERROR	37.7	56.9	71.2	43.9	*	73.6	44.2	68.3	81.4	22.9
TOTAL ALL AIRCRAFT	457,476	1,129,041	2,264,334	3,389,155	997,131	2,309,404	3,497,848	3,098,736	4,551,723	21,694,848
% STD. ERROR	16.2	13.2	10.5	9.4	18.6	11.0	9.3	11.7	10.0	3.9

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN THE % STD. ERROR COLUMN INDICATES A STANDARD ERROR OF 100.0 OR GREATER.

2.7 1993 GENERAL AVIATION NUMBER OF LANDINGS IN CROSS COUNTRY FLIGHT BY REGION OF BASED AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 3

AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
FIXED WING										
FIXED WING - PISTON										
1 ENG: 1-3 SEATS	53,984	58,416	181,076	236,236	178,709	117,508	277,274	165,730	208,306	1,477,239
% STD. ERROR	50.7	31.5	18.8	16.9	36.4	20.9	39.0	21.8	19.2	10.3
1 ENG: 4+ SEATS	337,508	251,206	537,708	664,667	215,977	529,345	814,930	614,656	1,244,782	5,210,779
% STD. ERROR	31.9	15.5	10.8	9.2	16.1	15.6	9.8	10.9	12.0	4.8
1 ENGINE: TOTAL	391,492	309,622	718,784	900,903	394,686	646,853	1,092,204	780,386	1,453,088	6,688,018
% STD. ERROR	28.4	13.9	9.4	8.1	18.7	13.3	12.3	9.8	10.6	4.4
2 ENG: 1-6 SEATS	6,838	64,494	94,747	183,866	29,690	58,406	225,371	91,805	140,437	895,654
% STD. ERROR	69.0	35.1	18.2	30.2	47.3	27.1	16.1	25.9	19.9	9.4
2 ENG: 7+ SEATS	14,170	23,276	48,878	137,964	27,376	92,144	115,582	97,806	108,903	666,099
% STD. ERROR	83.5	37.4	45.9	34.6	57.9	43.7	21.9	29.8	37.2	13.4
2 ENGINE: TOTAL	21,008	87,770	143,625	321,830	57,066	150,550	340,953	189,611	249,340	1,561,753
% STD. ERROR	60.6	27.6	19.7	22.8	37.1	28.8	13.0	19.8	19.8	7.9
PISTON: OTHER	0	49	17	9	0	0	0	0	781	856
% STD. ERROR	0.0	*	*	*	0.0	0.0	0.0	0.0	37.4	42.6
PISTON: TOTAL	412,500	397,441	862,426	1,222,742	451,752	797,403	1,433,157	969,997	1,703,209	8,250,627
% STD. ERROR	27.1	12.4	8.5	8.5	17.0	12.1	9.9	8.8	9.5	3.8
FIXED WING- TURBOPROP										
1 ENGINE: TOTAL	0	147	1,646	1,259	246	42,626	100,624	2,983	6,403	155,934
% STD. ERROR	0.0	*	73.6	*	*	91.5	70.7	*	66.6	52.2
2 ENG: 1-12 SEATS	0	49,896	65,042	155,193	19,244	30,183	145,775	219,204	42,890	727,427
% STD. ERROR	0.0	33.2	36.6	23.3	58.4	35.9	22.0	35.6	33.2	13.6
2 ENG: 13+ SEATS	1,466	1,333	8,922	32,595	1,911	9,788	21,461	3,229	8,167	88,872
% STD. ERROR	75.3	88.1	37.7	34.4	*	65.0	35.8	82.7	50.1	18.4

2.7 1993 GENERAL AVIATION NUMBER OF LANDINGS IN CROSS COUNTRY FLIGHT BY REGION OF BASED AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 3

AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
2 ENGINE: TOTAL	1,466	51,229	73,964	187,788	21,155	39,971	167,236	222,433	51,057	816,299
% STD. ERROR	75.3	32.5	32.5	20.1	54.3	31.5	19.7	35.1	29.0	12.2
TURBOPROP: OTHER	0	0	55	0	0	0	0	0	2,346	2,401
% STD. ERROR	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	25.8	26.6
TURBOPROP: TOTAL	1,466	51,376	75,665	189,047	21,401	82,597	267,860	225,416	59,806	974,634
% STD. ERROR	75.3	32.4	31.8	20.0	53.8	49.6	29.3	34.7	25.8	13.2
FIXED WING - TURBOJET										
2 ENGINE: TOTAL	872	61,352	101,974	236,379	10,793	61,466	119,582	120,904	70,375	783,697
% STD. ERROR	*	35.8	28.4	18.5	62.1	32.6	20.3	24.3	28.3	9.5
TURBOJET: OTHER	135	1,849	5,048	5,971	994	1,667	5,794	4,039	882	26,379
% STD. ERROR	*	64.4	42.9	43.6	95.1	*	*	54.4	56.5	28.7
TURBOJET: TOTAL	1,007	63,201	107,022	242,350	11,787	63,133	125,376	124,943	71,257	810,076
% STD. ERROR	*	34.8	27.1	18.1	57.4	31.9	20.0	23.6	28.0	9.2
FIXED WING: TOTAL	414,973	512,018	1,045,113	1,654,139	484,940	943,133	1,826,393	1,320,356	1,834,272	10,035,337
% STD. ERROR	27.0	11.1	7.9	7.2	16.1	11.3	9.0	9.0	9.0	3.5
ROTORCRAFT										
PISTON: TOTAL	3,200	1,817	10,414	2,447	2,140	5,531	13,727	4,410	59,254	102,940
% STD. ERROR	*	61.0	33.4	58.1	57.3	68.3	64.8	52.1	24.1	17.7
1 ENG: TURBINE	75,360	56,516	120,544	34,469	3,411	84,263	99,878	12,633	125,272	612,346
% STD. ERROR	85.6	88.9	53.7	69.8	79.0	55.7	54.8	88.9	37.3	22.5
MULTI-ENG: TURBINE	95,691	10,630	120,084	134,455	10,354	12,926	40,461	7,680	12,136	444,417
% STD. ERROR	59.1	*	41.7	61.7	61.8	67.9	68.9	*	66.8	26.6
TURBINE: TOTAL	171,051	67,146	240,628	168,924	13,765	97,189	140,339	20,313	137,408	1,056,763
% STD. ERROR	50.2	79.1	34.0	51.1	50.4	49.1	43.8	74.2	34.5	17.2
ROTORCRAFT: TOTAL	589,224	580,981	1,296,155	1,825,510	500,845	1,045,853	1,980,459	1,345,079	2,030,934	11,195,040
% STD. ERROR	23.9	13.4	8.9	8.0	15.6	11.2	8.8	8.9	8.4	3.5

2.7 1993 GENERAL AVIATION NUMBER OF LANDINGS IN CROSS COUNTRY FLIGHT BY REGION OF BASED AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	ALASKAN	CENTRAL	EASTERN	GREAT LAKES	NEW ENGLAND	NORTHWEST MOUNTAIN	SOUTHERN	SOUTH WESTERN	WESTERN-PACIFIC	TOTAL
OTHER AIRCRAFT										
GLIDERS:	0	14	704	1,329	81	1,875	3,453	701	4,676	12,833
% STD. ERROR	0.0	*	*	*	*	*	79.0	*	*	59.4
LIGHTER-THAN-AIR:	0	3,222	1,977	90	838	91	15,990	2,284	458	24,950
% STD. ERROR	0.0	*	*	*	*	*	67.5	*	*	51.8
EXPERIMENTAL:										
HOME BUILT:	0	1,984	7,145	18,670	2,158	13,509	12,891	7,835	22,716	86,908
% STD. ERROR	0.0	*	*	63.5	*	56.3	74.3	81.3	67.9	29.2
EXHIBITION:	0	562	1,078	2,075	182	1,539	2,098	1,154	3,976	12,664
% STD. ERROR	0.0	*	*	*	*	*	*	*	*	73.1
OTHER:	21,557	2,486	17,878	8,884	6,733	21,589	38,297	16,709	13,410	147,543
% STD. ERROR	*	99.1	92.7	*	64.4	88.1	73.3	*	67.4	37.7
TOTAL ALL AIRCRAFT	610,781	589,249	1,324,937	1,856,558	510,837	1,084,456	2,053,188	1,373,762	2,076,170	11,479,938
% STD. ERROR	23.8	13.2	8.9	7.9	15.4	10.9	8.7	8.9	8.3	3.5

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN THE %STD. ERROR COLUMN INDICATES A STANDARD ERROR OF 100.0 OR GREATER.

2.8 1993 GENERAL AVIATION TOTAL FLIGHT HOURS AND AVERAGE FLIGHT HOURS
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT		ESTIMATE OF TOTAL HOURS FLOWN	PERCENT STANDARD ERROR	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
YEARS OLD	YEAR BUILT				
1 TO 5	1989 - 1993	1,785,981	4.4	190.3	3.8
6 TO 10	1984 - 1988	1,452,939	4.6	181.8	4.3
11 TO 15	1979 - 1983	5,745,943	3.6	227.3	3.5
16 TO 20	1974 - 1978	6,608,736	3.4	168.3	3.3
21 TO 25	1969 - 1973	2,743,588	4.9	119.1	4.7
26 TO 30	1964 - 1968	2,781,520	3.3	94.4	3.2
31 TO 35	1959 - 1963	1,270,832	4.1	83.7	3.9
36 TO 40	1954 - 1958	735,104	4.8	77.5	4.5
41 TO 45	1949 - 1953	286,815	5.4	60.5	5.1
46 TO 50	1944 - 1948	580,345	4.3	46.3	4.2
51 TO 55	1939 - 1943	165,656	8.3	48.6	8.5
56 TO 60	1934 - 1938	13,224	7.1	38.5	3.0
OVER 60	- 1933	96,437	11.1	118.8	3.2
YEAR OF MANUFACTURE UNKN		72,697	55.5	344.0	8.3
TOTAL ALL AIRCRAFT		24,339,822	1.5	134.4	1.5

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

2.9 1993 GENERAL AVIATION TOTAL HOURS FLOWN IN RANGES OF HOURS FLOWN
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

TYPE OF AIRCRAFT	YEARS OLD	YEAR BUILT	ESTIMATE OF TOTAL HOURS FLOWN	TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE									
				1 - 50 HOURS	51 - 100 HOURS	101 - 150 HOURS	151 - 200 HOURS	201 - 300 HOURS	301 - 400 HOURS	401 - 500 HOURS			
1 TO 5	1989 - 1993		1,785,975	106,163	97,236	177,624	108,866	158,655	123,687	92,123			
6 TO 10	1984 - 1988		1,452,935	58,326	90,273	131,956	105,777	272,925	231,011	185,891			
11 TO 15	1979 - 1983		5,745,936	111,238	435,523	404,134	380,038	745,217	894,111	575,144			
16 TO 20	1974 - 1978		6,608,730	248,100	668,087	842,792	586,057	974,602	932,188	610,123			
21 TO 25	1969 - 1973		2,743,583	184,884	534,966	409,946	314,167	412,243	280,727	123,856			
26 TO 30	1964 - 1968		2,781,515	346,334	598,883	549,884	271,216	490,514	285,094	88,292			
31 TO 35	1959 - 1963		1,270,827	148,566	313,049	297,993	146,060	166,767	84,333	58,612			
36 TO 40	1954 - 1958		735,101	78,871	251,768	169,528	72,028	55,354	69,970	12,443			
41 TO 45	1949 - 1953		286,811	58,923	123,143	54,005	20,838	20,272	6,615	667			
46 TO 50	1944 - 1948		580,341	230,408	204,917	55,289	22,485	42,515	18,532	1,917			
51 TO 55	1939 - 1943		165,652	51,334	63,197	41,483	11,397	10,011	945	7,722			
56 TO 60	1934 - 1938		13,223	7,394	2,690	495	0	219	2,317	0			
OVER 60	- 1933		96,433	8,138	12,843	5,399	1,172	3,700	14,906	2,228			
YEAR OF MANUFACTURE UNKNOWN			72,691	873	294	628	5,286	7,684	8,673	6,500			
TOTAL ALL AIRCRAFT			24,339,753	1,639,552	3,396,869	3,125,264	2,045,387	3,360,678	2,953,109	1,765,518			

2.9 1993 GENERAL AVIATION TOTAL HOURS FLOWN IN RANGES OF HOURS FLOWN
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

TYPE OF AIRCRAFT	ESTIMATE OF TOTAL HOURS FLOWN	TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE					
		501 - 700 HOURS	701 - 1000 HOURS	1001 - 1300 HOURS	1301 - 1600 HOURS	OVER 1600 HOURS	
YEARS OLD	YEAR BUILT						
1 TO 5	1989 - 1993	1,785,975	249,411	138,870	167,234	150,629	115,777
6 TO 10	1984 - 1988	1,452,935	151,202	115,791	81,615	28,168	0
11 TO 15	1979 - 1983	5,745,936	811,800	790,061	327,974	151,518	119,755
16 TO 20	1974 - 1978	6,608,730	859,858	478,154	109,640	149,049	150,080
21 TO 25	1969 - 1973	2,743,583	218,572	103,029	45,890	115,303	0
26 TO 30	1964 - 1968	2,781,515	34,006	60,518	0	1,323	5,391
31 TO 35	1959 - 1963	1,270,827	5,508	4,134	22,311	0	23,494
36 TO 40	1954 - 1958	735,101	21,848	3,291	0	0	0
41 TO 45	1949 - 1953	286,811	2,348	0	0	0	0
46 TO 50	1944 - 1948	580,341	0	3,278	0	0	0
51 TO 55	1939 - 1943	165,652	6,563	0	0	0	0
56 TO 60	1934 - 1938	13,223	0	0	0	0	0
OVER 60	- 1933	96,433	0	38,047	0	0	0
YEAR OF MANUFACTURE UNKNOWN		72,691	9,652	2,863	13,464	16,774	0
TOTAL ALL AIRCRAFT		24,339,733	2,419,951	1,838,036	768,128	612,764	414,497

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

2.10 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS BY NUMBER OF AIRCRAFT AND
TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 6

TYPE OF AIRCRAFT	TOTAL NUMBER ACTIVE & HOURS FLOWN	NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE									
		1 - 50 HOURS	51 - 100 HOURS	101 - 150 HOURS	151 - 200 HOURS	201 - 300 HOURS	301 - 400 HOURS	401 - 500 HOURS			
FIXED WING											
FIXED WING - PISTON											
1 ENG: 1-3 SEATS	AIRCRAFT HOURS	20,372 2,349,705	9,538 1,100,112	2,631 303,459	1,747 201,499	2,246 259,054	1,950 224,913	1,279 147,520			
1 ENG: 4+ SEATS	AIRCRAFT HOURS	24,020 3,157,394	27,776 3,651,115	16,428 2,159,437	6,207 815,901	6,993 919,220	3,459 454,680	1,274 167,465			
1 ENGINE: TOTAL	AIRCRAFT HOURS	44,392 5,507,099	37,314 4,751,227	19,059 2,462,896	7,954 1,017,400	9,239 1,178,273	5,409 679,593	2,553 314,985			
2 ENG: 1-6 SEATS	AIRCRAFT HOURS	1,646 244,184	3,042 451,281	2,379 352,925	1,337 198,344	1,490 221,042	529 78,477	196 29,077			
2 ENG: 7+ SEATS	AIRCRAFT HOURS	886 144,914	1,225 200,361	1,094 178,935	716 117,109	872 142,624	348 56,919	192 31,404			
2 ENGINE: TOTAL	AIRCRAFT HOURS	2,532 389,099	4,267 651,642	3,473 531,860	2,053 315,453	2,362 363,666	877 135,396	388 60,480			
PISTON: OTHER	AIRCRAFT HOURS	3 149	14 694	0 0	0 0	1 50	0 0	0 0			
PISTON: TOTAL	AIRCRAFT HOURS	46,927 5,896,347	41,595 5,403,564	22,532 2,994,756	10,007 1,332,853	11,602 1,541,989	6,286 814,990	2,941 375,465			
FIXED WING - TURBOPROP											
1 ENGINE: TOTAL	AIRCRAFT HOURS	18 244,161	68 23,617	12 4,168	56 19,450	54 18,755	306 106,278	50 17,366			
2 ENG: 1-12 SEATS	AIRCRAFT HOURS	3,265 843,628	347 89,660	326 84,234	424 109,555	810 209,292	857 221,436	135 34,882			
2 ENG: 13+ SEATS	AIRCRAFT HOURS	365 134,865	16 5,912	34 12,563	47 17,366	90 33,254	66 24,386	30 11,085			

2.10 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS BY NUMBER OF AIRCRAFT AND
TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 6

TYPE OF AIRCRAFT	TOTAL NUMBER ACTIVE & HOURS FLOWN	NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN IN EACH FLIGHT HOURS RANGE				
		501 - 700 HOURS	701-1000 HOURS	1001-1300 HOURS	1301-1600 HOURS	OVER 1600 HOURS
FIXED WING - PISTON						
1 ENG: 1-3 SEATS	AIRCRAFT HOURS	1,032 119,031	404 46,597	33 3,806	18 2,076	0 0
1 ENG: 4+ SEATS	AIRCRAFT HOURS	1,311 172,329	1,181 155,241	358 47,059	286 37,594	143 18,797
1 ENGINE: TOTAL	AIRCRAFT HOURS	2,343 291,360	1,585 201,838	391 50,865	304 39,670	143 18,797
2 ENG: 1-6 SEATS	AIRCRAFT HOURS	171 25,368	67 9,939	58 8,604	7 1,038	0 0
2 ENG: 7+ SEATS	AIRCRAFT HOURS	123 20,118	9 1,472	0 0	0 0	0 0
2 ENGINE: TOTAL	AIRCRAFT HOURS	294 45,486	76 11,412	58 8,604	7 1,038	0 0
PISTON: OTHER	AIRCRAFT HOURS	0 0	0 0	0 0	0 0	0 0
PISTON: TOTAL	AIRCRAFT HOURS	2,637 336,846	1,661 213,250	449 59,469	311 40,709	143 18,797
FIXED WING - TURBOPROP						
1 ENGINE: TOTAL	AIRCRAFT HOURS	135 46,887	4 1,389	0 0	0 0	0 0
2 ENG: 1-12 SEATS	AIRCRAFT HOURS	176 45,476	11 2,842	39 10,077	1 258	0 0
2 ENG: 13+ SEATS	AIRCRAFT HOURS	52 19,214	16 5,912	0 0	0 0	0 0

2.10 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS BY NUMBER OF AIRCRAFT AND
TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 6

TYPE OF AIRCRAFT	TOTAL NUMBER ACTIVE & HOURS FLOWN	NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE									
		1 - 50 HOURS	51 - 100 HOURS	101 - 150 HOURS	151 - 200 HOURS	201 - 300 HOURS	301 - 400 HOURS	401 - 500 HOURS			
2 ENGINE: TOTAL	AIRCRAFT HOURS 3,631 978,493	153 41,088	363 95,572	360 96,796	471 126,921	900 242,546	923 245,823	165 45,967			
TURBOPROP: OTHER	AIRCRAFT HOURS 24 3,246	0 0	6 812	2 271	16 2,164	0 0	0 0	0 0			
TURBOPROP: TOTAL	AIRCRAFT HOURS 4,359 1,225,900	171 47,340	437 120,000	374 101,235	543 148,535	954 261,301	1,229 352,100	215 63,332			
FIXED WING - TURBOJET											
2 ENGINE: TOTAL	AIRCRAFT HOURS 3,672 1,125,817	189 57,946	213 65,305	357 109,454	299 91,672	857 262,752	754 231,173	436 133,675			
TURBOJET: OTHER	AIRCRAFT HOURS 186 39,193	35 7,375	11 2,318	11 2,318	7 1,475	92 19,386	10 2,107	20 4,214			
TURBOJET: TOTAL	AIRCRAFT HOURS 3,859 1,165,010	224 65,321	224 67,623	368 111,772	306 93,147	949 282,138	764 233,280	456 137,890			
FIXED WING: TOTAL	AIRCRAFT HOURS 155,312 21,419,942	47,322 6,009,008	42,256 5,591,187	23,274 3,207,763	10,856 1,574,535	13,505 2,085,428	8,279 1,400,370	3,612 576,688			
ROTORCRAFT											
PISTON: TOTAL	AIRCRAFT HOURS 1,645 369,935	477 107,270	205 46,101	139 31,259	107 24,063	274 61,618	114 25,637	180 40,479			
1 ENG: TURBINE	AIRCRAFT HOURS 2,144 1,072,444	108 54,022	216 108,045	115 57,524	181 90,537	107 53,522	302 151,063	145 72,530			
MULTI-ENG: TURBINE	AIRCRAFT HOURS 719 389,091	81 43,834	21 11,364	12 6,494	81 43,834	104 56,280	79 42,751	45 24,352			
TURBINE: TOTAL	AIRCRAFT HOURS 2,864 1,461,535	189 97,856	237 119,409	127 64,018	262 134,371	211 109,802	381 193,814	190 96,882			

2.10 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS BY NUMBER OF AIRCRAFT AND
TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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TYPE OF AIRCRAFT	AIRCRAFT HOURS	TOTAL NUMBER ACTIVE & HOURS FLOWN	NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN IN EACH FLIGHT HOURS RANGE					
			501 - 700 HOURS	701-1000 HOURS	1001-1300 HOURS	1301-1600 HOURS	OVER 1600 HOURS	
2 ENGINE: TOTAL	AIRCRAFT HOURS	3,631 978,493	228 64,689	27 8,754	39 10,077	1 258	0 0	
TURBOPROP: OTHER	AIRCRAFT HOURS	24 3,246	0 0	0 0	0 0	0 0	0 0	
TURBOPROP: TOTAL	AIRCRAFT HOURS	4,359 1,225,900	363 111,577	31 10,143	39 10,077	1 258	0 0	
FIXED WING - TURBOJET	AIRCRAFT HOURS	3,672 1,125,817	514 157,590	53 16,250	0 0	0 0	0 0	
2 ENGINE: TOTAL	AIRCRAFT HOURS	186 39,193	0 0	0 0	0 0	0 0	0 0	
TURBOJET: OTHER	AIRCRAFT HOURS	3,859 1,165,010	514 157,590	53 16,250	0 0	0 0	0 0	
TURBOJET: TOTAL	AIRCRAFT HOURS	155,312 21,419,942	3,514 606,012	1,745 239,642	488 69,546	312 40,967	143 18,797	
ROTORCRAFT	AIRCRAFT HOURS	1,645 369,935	91 20,464	58 13,043	0 0	0 0	0 0	
1 ENG: TURBINE	AIRCRAFT HOURS	2,144 1,072,444	435 217,590	271 135,556	146 73,030	101 50,521	17 8,504	
MULTI-ENG: TURBINE	AIRCRAFT HOURS	719 389,091	139 75,221	73 39,504	55 29,764	6 3,247	23 12,447	
TURBINE: TOTAL	AIRCRAFT HOURS	2,864 1,461,535	574 292,811	344 175,060	201 102,794	107 53,768	40 20,950	
ROTORCRAFT: TOTAL	AIRCRAFT HOURS	4,509 1,831,470	665 313,275	402 188,104	201 102,794	107 53,768	40 20,950	

2.10 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS BY NUMBER OF AIRCRAFT AND
TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 5 OF 6

TYPE OF AIRCRAFT	TOTAL NUMBER ACTIVE & HOURS FLOWN	NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE									
		1 - 50 HOURS	51 - 100 HOURS	101 - 150 HOURS	151 - 200 HOURS	201 - 300 HOURS	301 - 400 HOURS	401 - 500 HOURS			
ROTORCRAFT: TOTAL	AIRCRAFT HOURS	4,509 1,831,470	666 205,126	442 165,510	266 95,277	369 158,434	485 171,421	495 219,451	370 137,361		
OTHER AIRCRAFT GLIDERS:	AIRCRAFT HOURS	1,645 159,080	791 76,494	357 34,524	297 28,721	59 5,706	59 5,706	5 484	2 193		
LIGHTER-THAN-AIR:	AIRCRAFT HOURS	3,601 216,586	2,903 174,604	337 20,269	141 8,481	172 10,345	3 180	0 0	0 0		
EXPERIMENTAL: HOME BUILT:	AIRCRAFT HOURS	6,853 298,307	4,861 211,596	1,147 49,928	780 33,953	61 2,655	4 174	0 0	0 0		
EXHIBITION:	AIRCRAFT HOURS	1,621 87,636	1,161 62,767	187 10,110	158 8,542	70 3,784	17 919	0 0	0 0		
OTHER:	AIRCRAFT HOURS	2,461 324,496	1,102 145,305	468 61,708	365 48,127	154 20,306	65 8,571	111 14,636	46 6,065		
TOTAL	AIRCRAFT HOURS	176,006 2,339,826	60,135 8,316,054	45,777 6,330,490	25,443 3,518,506	11,526 1,593,928	13,535 1,871,752	8,272 1,143,933	3,795 524,810		

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

2.10 1993 GENERAL AVIATION POPULATION SIZE, ACTIVE AIRCRAFT, TOTAL FLIGHT HOURS BY NUMBER OF AIRCRAFT AND
TOTAL HOURS FLOWN IN EACH FLIGHT HOUR RANGE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 6 OF 6

TYPE OF AIRCRAFT	TOTAL NUMBER ACTIVE & HOURS FLOWN	NUMBER OF AIRCRAFT AND TOTAL HOURS FLOWN IN EACH FLIGHT HOURS RANGE					
		501 - 700 HOURS	701-1000 HOURS	1001-1300 HOURS	1301-1600 HOURS	OVER 1600 HOURS	
OTHER AIRCRAFT GLIDERS:	AIRCRAFT HOURS	39 1,645 159,080	34 3,288	2 193	0 0	0 0	0 0
LIGHTER-THAN-AIR:	AIRCRAFT HOURS	0 3,601 216,586	0 0	0 0	0 0	0 0	45 2,707
EXPERIMENTAL: HOME BUILT:	AIRCRAFT HOURS	0 6,853 298,307	0 0	0 0	0 0	0 0	0 0
EXHIBITION:	AIRCRAFT HOURS	28 1,621 87,636	0 0	0 0	0 0	0 0	0 0
OTHER:	AIRCRAFT HOURS	80 2,461 324,496	50 6,593	20 2,637	0 0	0 0	0 0
TOTAL	AIRCRAFT HOURS	4,005 176,006 24,339,826	2,196 303,684	674 93,207	421 58,220	227 31,392	

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

CHAPTER III

PRIMARY AND ACTUAL USE

3.1 1993 GENERAL AVIATION NUMBER OF AIRCRAFT BY PRIMARY USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 5

		PRIMARY USE											TOTAL INACTIVE
AIRCRAFT TYPE	TOTAL ACTIVE	CORPORATE	BUSINESS	PERSONAL	INSTRUCTIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
FIXED WING													
FIXED WING - PISTON													
1 ENG: 1-3 SEATS													
EST. NO. ACTIVE	41,251	130	2,210	27,180	6,014	3,784	869	112	0	439	2	513	27,562
% STD. ERROR	1.8	49.8	12.1	1.8	6.7	3.6	19.4	41.4	0.0	20.5	*	22.1	
EST. % ACTIVE	59.9												
1 ENG: 4+ SEATS													
EST. NO. ACTIVE	89,437	1,103	19,200	58,429	6,244	57	1,842	155	0	272	771	1,364	20,169
% STD. ERROR	0.9	17.9	3.8	1.5	7.7	83.3	14.7	49.5	0.0	37.1	20.7	16.3	
EST. % ACTIVE	81.6												
1 ENGINE: TOTAL													
EST. NO. ACTIVE	130,687	1,232	21,410	85,609	12,258	3,840	2,711	267	0	711	772	1,877	47,732
% STD. ERROR	0.8	16.9	3.6	1.2	5.1	3.8	11.7	33.5	0.0	19.0	20.7	13.3	
EST. % ACTIVE	73.2												
2 ENG: 1-6 SEATS													
EST. NO. ACTIVE	10,922	1,184	3,740	4,138	964	138	206	0	0	18	381	154	4,265
% STD. ERROR	2.9	13.4	7.1	6.5	14.4	39.0	38.4	0.0	0.0	67.2	27.4	43.1	
EST. % ACTIVE	71.9												
2 ENG: 7+ SEATS													
EST. NO. ACTIVE	5,466	1,127	1,806	632	97	77	212	24	0	35	1,287	169	1,115
% STD. ERROR	2.3	14.2	11.0	21.8	61.5	56.5	28.6	61.7	0.0	65.3	13.1	41.0	
EST. % ACTIVE	83.1												
2 ENGINE: TOTAL													
EST. NO. ACTIVE	16,388	2,311	5,546	4,770	1,062	215	418	24	0	53	1,667	322	5,380
% STD. ERROR	2.1	9.7	6.0	6.4	14.2	32.2	23.8	61.7	0.0	48.8	11.9	29.7	
EST. % ACTIVE	75.3												

3.1 1993 GENERAL AVIATION NUMBER OF AIRCRAFT BY PRIMARY USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 5

		PRIMARY USE											TOTAL INACTIVE
AIRCRAFT TYPE	TOTAL ACTIVE	CORPORATE	BUSINESS	PERSONAL	INSTRUCTIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
PISTON: OTHER													
EST. NO. ACTIVE	18	0	2	0	0	7	0	4	0	0	0	5	77
% STD. ERROR	40.7	0.0	85.1	0.0	0.0	44.1	0.0	61.0	0.0	0.0	0.0	55.3	
EST. % ACTIVE	19.4												
PISTON: TOTAL													
EST. NO. ACTIVE	147,094	3,543	26,959	90,379	13,320	4,062	3,129	295	0	764	2,440	2,204	53,188
% STD. ERROR	0.8	8.7	3.1	1.1	4.8	3.9	10.7	30.8	0.0	18.0	10.4	12.1	
EST. % ACTIVE	73.4												
FIXED WING - TURBOPROP													
1 ENGINE: TOTAL													
EST. NO. ACTIVE	703	9	43	35	36	286	0	0	0	4	276	13	104
% STD. ERROR	6.8	*	47.1	53.0	43.4	5.3	0.0	0.0	0.0	*	8.3	89.9	
EST. % ACTIVE	87.1												
2 ENG: 1-12 SEATS													
EST. NO. ACTIVE	3,266	2,439	331	206	5	0	2	0	0	0	192	90	820
% STD. ERROR	3.8	4.5	21.3	34.2	*	0.0	*	0.0	0.0	0.0	27.1	48.3	
EST. % ACTIVE	79.9												
2 ENG: 13+ SEATS													
EST. NO. ACTIVE	366	231	3	0	1	2	4	11	0	8	49	58	502
% STD. ERROR	15.3	8.2	*	0.0	*	*	54.6	43.3	0.0	55.1	31.2	20.7	
EST. % ACTIVE	42.2												
2 ENGINE: TOTAL													
EST. NO. ACTIVE	3,632	2,671	334	206	6	2	6	11	0	8	241	148	1,322
% STD. ERROR	3.8	4.2	21.1	34.2	*	*	75.3	43.3	0.0	55.1	22.5	30.5	
EST. % ACTIVE	73.3												

3.1 1993 GENERAL AVIATION NUMBER OF AIRCRAFT BY PRIMARY USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 5

PRIMARY USE													TOTAL INACTIVE
AIRCRAFT TYPE	TOTAL ACTIVE	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
TURBOPROP: OTHER													
EST. NO. ACTIVE	24	0	0	0	0	21	0	0	0	0	0	3	47
% STD. ERROR	41.0	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	0.0	96.7	
EST. % ACTIVE	34.1												
TURBOPROP: TOTAL													
EST. NO. ACTIVE	4,359	2,680	377	241	42	308	6	11	0	12	517	165	1,473
% STD. ERROR	3.3	4.2	19.5	30.2	44.6	5.1	75.3	43.3	0.0	*	11.4	28.4	
EST. % ACTIVE	74.7												
FIXED WING - TURBOJET													
2 ENGINE: TOTAL													
EST. NO. ACTIVE	3,673	3,171	94	30	11	0	2	0	0	0	267	98	599
% STD. ERROR	2.9	2.4	39.2	58.8	81.6	0.0	*	0.0	0.0	0.0	21.3	40.4	
EST. % ACTIVE	86.0												
TURBOJET: OTHER													
EST. NO. ACTIVE	186	154	3	7	0	0	0	0	0	0	2	21	248
% STD. ERROR	11.8	2.3	51.6	44.5	0.0	0.0	0.0	0.0	0.0	0.0	*	11.3	
EST. % ACTIVE	42.9												
TURBOJET: TOTAL													
EST. NO. ACTIVE	3,859	3,324	97	37	11	0	2	0	0	0	269	119	847
% STD. ERROR	2.8	2.3	38.1	48.0	81.6	0.0	*	0.0	0.0	0.0	21.2	33.3	
EST. % ACTIVE	82.0												
FIXED WING: TOTAL													
EST. NO. ACTIVE	155,312	9,547	27,433	90,657	13,373	4,371	3,137	306	0	775	3,226	2,487	55,508
% STD. ERROR	0.7	3.5	3.1	1.1	4.8	3.7	10.6	29.7	0.0	17.9	8.3	11.0	
EST. % ACTIVE	73.7												

3.1 1993 GENERAL AVIATION NUMBER OF AIRCRAFT BY PRIMARY USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 4 OF 5

AIRCRAFT TYPE	PRIMARY USE												TOTAL INACTIVE
	TOTAL ACTIVE	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
ROTORCRAFT													
PISTON: TOTAL													
EST. NO. ACTIVE	1,646	16	164	383	376	264	306	75	11	4	5	43	2,628
% STD. ERROR	6.3	58.9	21.7	12.9	11.6	16.6	15.8	37.5	40.4	*	*	32.7	
EST. % ACTIVE	38.5												
1 ENG: TURBINE													
EST. NO. ACTIVE	2,144	366	128	97	51	181	656	183	99	5	218	162	896
% STD. ERROR	5.0	23.1	40.1	36.5	64.7	26.1	15.5	33.7	40.1	*	32.1	36.2	
EST. % ACTIVE	70.5												
MULTI-ENGL TURBINE													
EST. NO. ACTIVE	720	151	1	5	0	31	64	0	16	9	325	118	186
% STD. ERROR	5.3	23.6	*	*	0.0	37.5	39.9	0.0	31.6	*	11.8	22.2	
EST. % ACTIVE	79.5												
TURBINE: TOTAL													
EST. NO. ACTIVE	2,864	517	130	102	51	212	719	183	115	14	543	280	1,082
% STD. ERROR	4.0	17.8	39.8	35.3	64.7	22.9	14.6	33.7	34.8	*	14.7	22.9	
EST. % ACTIVE	72.6												
ROTORCRAFT: TOTAL													
EST. NO. ACTIVE	4,510	533	294	484	427	476	1,025	257	126	18	548	322	3,710
% STD. ERROR	3.4	17.3	21.3	12.6	12.8	13.8	11.3	26.3	31.9	92.3	14.6	20.4	
EST. % ACTIVE	54.9												
OTHER AIRCRAFT													
GLIDERS:													
EST. NO. ACTIVE	1,645	1	13	1,372	171	0	0	53	0	2	0	33	1,115
% STD. ERROR	6.9	*	*	4.5	29.4	0.0	0.0	54.7	0.0	*	0.0	70.3	
EST. % ACTIVE	59.6												

3.1 1993 GENERAL AVIATION NUMBER OF AIRCRAFT BY PRIMARY USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 5 OF 5

AIRCRAFT TYPE	PRIMARY USE												TOTAL INACTIVE
	TOTAL ACTIVE	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
LIGHTER-THAN-AIR:													
EST. NO. ACTIVE	3,602	1	54	2,560	60	0	27	701	0	95	0	104	1,895
% STD. ERROR	5.7	*	78.7	6.2	75.1	0.0	*	19.8	0.0	59.3	0.0	56.5	
EST. % ACTIVE	65.5												
EXPERIMENTAL:													
HOME BUILT:													
EST. NO. ACTIVE	6,854	0	346	5,986	52	0	2	0	0	18	0	450	5,829
% STD. ERROR	5.9	0.0	36.7	3.2	96.3	0.0	*	0.0	0.0	*	0.0	31.9	
EST. % ACTIVE	54.0												
EXHIBITION:													
EST. NO. ACTIVE	1,622	0	9	1,308	24	1	2	1	0	9	0	269	995
% STD. ERROR	7.4	0.0	*	5.7	94.4	*	*	*	0.0	*	0.0	26.0	
EST. % ACTIVE	62.0												
OTHER:													
EST. NO. ACTIVE	2,462	196	341	1,290	37	65	194	7	0	92	0	240	912
% STD. ERROR	5.0	34.1	25.0	9.6	81.4	60.7	34.3	*	0.0	51.1	0.0	30.5	
EST. % ACTIVE	73.0												
TOTAL													
EST. NO. ACTIVE	176,006	10,279	28,489	103,657	14,143	4,913	4,386	1,325	126	1,008	3,773	3,906	69,965
% STD. ERROR	0.7	3.4	3.0	1.0	4.6	3.6	8.2	13.8	31.9	16.0	7.4	8.7	
EST. % ACTIVE	71.6												

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR ROW INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

3.2 1993 GENERAL AVIATION TOTAL HOURS FLOWN BY ACTUAL USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 4

AIRCRAFT TYPE	ACTUAL USE										TOTAL
	CORP- ORATE	BUSI- NESS	PER- SONAL	INSTRUC- TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	
FIXED WING											
FIXED WING - PISTON											
1 ENG: 1-3 SEATS											
EST. TOT. HOURS	60,278	173,663	1,546,275	1,749,277	889,003	199,105	6,390	0	82,200	107	4,757,842
% STD. ERROR	52.2	14.8	3.5	8.5	5.8	25.3	89.5	0.0	22.8	*	4.1
1 ENG: 4+ SEATS											
EST. TOT. HOURS	202,346	2,366,110	5,363,520	2,129,295	17,003	702,307	55,192	0	50,620	377,262	11,756,339
% STD. ERROR	21.5	4.8	2.4	10.8	*	26.1	57.4	0.0	37.7	24.2	2.9
1 ENGINE: TOTAL											
EST. TOT. HOURS	262,623	2,539,773	6,909,795	3,878,573	906,005	901,412	61,581	0	132,820	377,368	16,514,182
% STD. ERROR	19.6	4.6	2.0	7.0	6.0	21.0	50.2	0.0	20.2	24.1	2.4
2 ENG: 1-6 SEATS											
EST. TOT. HOURS	232,741	491,216	440,123	272,640	18,758	51,702	0	0	2,780	133,537	1,620,288
% STD. ERROR	16.1	8.6	8.8	14.9	37.5	40.0	0.0	0.0	*	29.9	5.0
2 ENG: 7+ SEATS											
EST. TOT. HOURS	213,418	208,510	48,299	13,087	4,187	43,941	6,806	0	8,437	349,736	894,017
% STD. ERROR	17.9	13.1	26.3	72.4	68.2	36.1	71.7	0.0	79.3	14.9	6.2
2 ENGINE: TOTAL											
EST. TOT. HOURS	446,159	699,726	488,421	285,728	22,945	95,642	6,806	0	11,217	483,273	2,514,305
% STD. ERROR	12.0	7.2	8.5	14.8	28.4	26.9	63.2	0.0	60.0	13.7	3.9
PISTON:											
OTHER											
EST. TOT. HOURS	0	59	0	0	404	0	282	0	0	0	914
% STD. ERROR	0.0	85.1	0.0	0.0	44.2	0.0	62.6	0.0	0.0	0.0	42.8
PISTON: TOTAL											
EST. TOT. HOURS	708,782	3,239,557	7,398,215	4,164,300	929,355	997,054	68,670	0	144,037	860,641	19,029,404
% STD. ERROR	10.4	4.0	1.9	6.7	5.9	19.3	46.2	0.0	19.4	12.7	2.1

3.2 1993 GENERAL AVIATION TOTAL HOURS FLOWN BY ACTUAL USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 4

AIRCRAFT TYPE	ACTUAL USE										TOTAL	
	CORP-ORATE	BUSI-NESS	PER-SONAL	INSTRUC-TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI		
FIXED WING - TURBOPROP												
1 ENGINE: TOTAL												
EST. TOT. HOURS	1,984	6,024	3,815	7,958	106,399	0	0	0	1,137	120,185	2,756	244,210
% STD. ERROR	*	49.8	55.5	85.8	11.1	0.0	0.0	0.0	*	15.1	58.3	11.3
2 ENG: 1-12 SEATS												
EST. TOT. HOURS	670,680	47,308	29,112	2,048	0	452	0	0	0	56,608	46,717	843,801
% STD. ERROR	6.5	29.1	42.7	*	0.0	*	0.0	0.0	0.0	28.7	53.2	6.7
2 ENG: 13+ SEATS												
EST. TOT. HOURS	77,949	461	0	57	153	603	7,959	0	1,663	23,296	23,200	135,219
% STD. ERROR	10.0	*	0.0	*	92.0	58.0	51.2	0.0	50.8	31.9	17.1	20.6
2 ENGINE: TOTAL												
EST. TOT. HOURS	748,629	47,768	29,112	2,105	153	1,055	7,959	0	1,663	79,904	69,917	979,020
% STD. ERROR	6.0	28.9	42.7	*	92.0	86.5	51.2	0.0	50.8	23.5	31.5	6.4
TURBOPROP: OTHER												
EST. TOT. HOURS	0	0	0	0	3,073	0	0	0	0	0	190	3,279
% STD. ERROR	0.0	0.0	0.0	0.0	16.8	0.0	0.0	0.0	0.0	0.0	96.7	42.6
TURBOPROP: TOTAL												
EST. TOT. HOURS	750,613	53,792	32,927	10,063	109,625	1,055	7,959	0	2,800	200,089	72,864	1,226,508
% STD. ERROR	6.0	26.0	37.9	77.9	11.1	86.5	51.2	0.0	*	14.0	26.5	5.6
FIXED WING - TURBOJET												
2 ENGINE: TOTAL												
EST. TOT. HOURS	970,434	13,547	8,343	3,448	0	75	0	0	0	107,083	24,970	1,126,047
% STD. ERROR	4.3	52.1	54.3	83.1	0.0	*	0.0	0.0	0.0	23.4	44.9	4.8
TURBOJET: OTHER												
EST. TOT. HOURS	37,045	87	208	0	0	0	0	0	0	408	1,610	39,272
% STD. ERROR	8.6	59.6	*	0.0	0.0	0.0	0.0	0.0	0.0	*	30.8	15.5

3.2 1993 GENERAL AVIATION TOTAL HOURS FLOWN BY ACTUAL USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 4

AIRCRAFT TYPE	ACTUAL USE											TOTAL
	CORP-ORATE	BUSI-NESS	PER-SONAL	INSTRUC-TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEE	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER	
TURBOJET: TOTAL												
EST. TOT. HOURS	1,007,478	13,634	8,551	3,448	0	75	0	0	0	107,491	26,580	1,165,319
% STD. ERROR	4.1	50.8	48.8	83.1	0.0	*	0.0	0.0	0.0	23.3	38.8	4.7
FIXED WING: TOTAL												
EST. TOT. HOURS	2,466,874	3,306,984	7,439,694	4,177,810	1,038,979	998,185	76,629	0	146,837	1,168,221	388,772	21,421,226
% STD. ERROR	4.2	3.9	1.9	6.6	5.5	19.3	42.0	0.0	19.1	10.1	13.2	1.9
ROTORCRAFT												
PISTON: TOTAL												
EST. TOT. HOURS	1,544	11,977	28,097	147,488	55,227	109,008	16,929	1,050	519	917	3,508	370,099
% STD. ERROR	68.1	23.0	18.9	12.5	18.7	19.5	43.5	58.0	*	*	31.8	8.7
1 ENG: TURBINE												
EST. TOT. HOURS	131,973	36,281	9,189	35,097	53,384	448,818	130,491	61,665	29	113,425	63,087	1,072,604
% STD. ERROR	27.4	59.7	44.6	71.5	32.1	19.4	38.5	48.9	*	37.4	55.4	9.5
MULTI-ENGL TURBINE												
EST. TOT. HOURS	68,907	259	991	0	6,492	27,541	0	30,903	3,289	168,169	82,640	389,602
% STD. ERROR	23.9	*	*	0.0	43.1	40.5	0.0	29.9	*	15.1	20.2	10.8
TURBINE: TOTAL												
EST. TOT. HOURS	200,880	36,541	10,180	35,097	59,876	476,359	130,491	92,568	3,318	281,595	145,727	1,462,206
% STD. ERROR	20.5	59.3	43.5	70.7	29.6	18.8	38.5	38.9	*	18.1	28.8	7.6
ROTORCRAFT: TOTAL												
EST. TOT. HOURS	202,424	48,518	38,277	182,585	115,102	585,367	147,420	93,619	3,837	282,511	149,235	1,832,306
% STD. ERROR	20.1	41.1	17.3	15.1	16.9	14.9	30.5	37.1	*	17.9	26.3	6.3
OTHER AIRCRAFT												
GLIDERS:												
EST. TOT. HOURS	69	395	83,352	49,647	0	0	18,648	0	213	0	3,593	159,092
% STD. ERROR	*	*	10.9	35.2	0.0	0.0	69.6	0.0	*	0.0	72.1	17.1

3.2 1993 GENERAL AVIATION TOTAL HOURS FLOWN BY ACTUAL USE
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 4 OF 4

AIRCRAFT TYPE	ACTUAL USE										TOTAL
	CORP-ORATE	BUSI-NESS	PER-SONAL	INSTRUC-TIONAL	AERIAL-APPL	AERIAL-OBS	SIGHT-SEE	EXTERNAL-LOAD	OTHER-WORK	AIR-TAXI	
LIGHTER-THAN-AIR:											
EST. TOT. HOURS	10	885	69,785	1,834	0	6,872	112,126	0	11,626	0	216,633
% STD. ERROR	*	92.7	9.0	91.9	0.0	*	52.4	0.0	66.2	0.0	30.2
EXPERIMENTAL:											
HOME BUILT:											
EST. TOT. HOURS	0	20,567	262,722	3,575	0	72	0	0	124	0	298,339
% STD. ERROR	0.0	44.6	7.7	*	0.0	*	0.0	0.0	*	0.0	9.0
EXHIBITION:											
EST. TOT. HOURS	0	524	76,765	824	159	111	26	0	991	0	87,679
% STD. ERROR	0.0	*	18.9	*	*	*	*	0.0	*	0.0	18.2
OTHER:											
EST. TOT. HOURS	78,963	34,378	71,700	3,799	7,061	59,749	3,362	0	9,530	0	324,608
% STD. ERROR	45.1	30.5	13.4	*	64.6	43.6	*	0.0	69.3	0.0	15.0
TOTAL											
EST. TOT. HOURS	2,748,339	3,412,250	8,042,293	4,420,073	1,161,301	1,650,355	358,210	93,619	173,159	1,450,733	24,339,884
% STD. ERROR	4.3	3.9	1.8	6.3	5.2	13.2	22.4	36.8	17.2	8.9	1.8

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
ROW SUMMATIONS MAY DIFFER FROM PRINTED TOTALS BECAUSE SOME ACTIVE AIRCRAFT DID NOT REPORT USE.

3.3 1993 GENERAL AVIATION NAUTICAL MILES FLOWN BY ACTUAL USE BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

AIRCRAFT TYPE	NAUTICAL MILES (IN THOUSANDS)										TOTAL
	CORPORATE	BUSINESS	PERSONAL	INSTRUCTIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEEING	EXTERNAL LOAD	OTHER WORK	AIR TAXI	OTHER
FIXED WING - PISTON											
1 ENG: 1-3 SEATS	3,777	14,706	135,015	136,946	83,160	17,292	2,295	0	6,231	64	2,831
1 ENG: 4+ SEATS	17,614	274,974	568,328	210,049	2,391	76,410	9,878	0	5,002	32,121	20,188
1 ENGINE: TOTAL	21,391	289,680	703,343	346,995	85,551	93,702	12,173	0	11,232	32,185	23,019
2 ENG: 1-6 SEATS	27,589	69,175	69,634	26,500	2,597	8,081	116	0	1,012	15,914	1,045
2 ENG: 7+ SEATS	28,761	28,948	9,587	1,520	1,013	6,740	586	0	1,128	38,223	2,270
2 ENGINE: TOTAL	56,350	98,123	79,221	28,020	3,610	14,821	702	0	2,140	54,137	3,315
PISTON: OTHER	0	13	0	0	95	0	54	0	12	0	30
PISTON: TOTAL	77,742	387,816	782,564	375,015	89,256	108,522	12,929	0	13,384	86,322	26,364
FIXED WING - TURBOPROP											
1 ENGINE: TOTAL	332	1,069	755	1,155	13,803	0	0	0	159	11,893	426
2 ENG: 1-12 SEATS	113,222	10,602	7,846	973	0	529	0	0	0	7,907	6,496
2 ENG: 13+ SEATS	9,754	115	32	24	9	55	243	0	99	2,253	3,457
2 ENGINE: TOTAL	122,977	10,717	7,878	997	9	584	243	0	99	10,160	9,953
TURBOPROP: OTHER	0	0	0	35	1,178	0	0	0	0	0	46
TURBOPROP: TOTAL	123,309	11,786	8,633	2,186	14,990	584	243	0	258	22,053	10,425
FIXED WING - TURBOJET											
2 ENGINE: TOTAL	371,441	6,462	5,515	1,036	0	0	0	0	0	49,223	11,634
TURBOJET: OTHER	16,621	7	239	0	0	0	0	0	0	106	124
TURBOJET: TOTAL	388,063	6,469	5,754	1,036	0	0	0	0	0	49,329	11,758

3.3 1993 GENERAL AVIATION NAUTICAL MILES FLOWN BY ACTUAL USE BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

AIRCRAFT TYPE	NAUTICAL MILES (IN THOUSANDS)										TOTAL
	CORP-ORATE	BUSI-NESS	PER-SONAL	INSTRUC-TIONAL	AERIAL APPL	AERIAL OBS	SIGHT SEEING	EXTERNAL LOAD	OTHER WORK	AIR TAXI	
FIXED WING: TOTAL	589,113	406,070	796,951	378,237	104,246	109,106	13,172	0	13,642	157,704	48,546 2,616,787
ROTORCRAFT											
PISTON: TOTAL	101	746	1,684	7,166	3,564	5,888	919	96	41	116	20,551
1 ENG: TURBINE	13,367	4,738	842	3,856	5,455	42,483	11,698	2,592	184	9,765	100,429
MULTI-ENG: TURBINE	6,614	40	177	258	369	1,915	2	1,813	102	12,929	30,159
TURBINE: TOTAL	19,981	4,778	1,019	4,114	5,824	44,398	11,699	4,405	286	22,695	130,588
ROTORCRAFT: TOTAL	20,082	5,524	2,703	11,279	9,389	50,286	12,618	4,501	327	22,811	151,139
OTHER AIRCRAFT											
GLIDERS:	4	17	4,105	1,561	0	0	0	0	0	0	55 5,741
LIGHTER-THAN-AIR:	0	17	1,315	60	0	0	0	0	0	0	78 1,469
EXPERIMENTAL:											
HOME BUILT:	0	1,501	19,093	264	0	20	1	0	8	0	905 21,792
EXHIBITION:	1	55	9,361	58	18	9	5	0	117	0	1,030 10,654
OTHER:	3,323	2,120	4,474	621	418	3,616	304	63	548	0	3,181 18,667
TOTAL	612,523	415,304	838,001	392,079	114,070	163,038	26,101	4,564	14,642	180,514	65,413 2,826,252

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

CHAPTER IV

FLYING CONDITIONS

4.1 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

AIRCRAFT TYPE	DAY TOTAL				NIGHT TOTAL			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING								
FIXED WING - PISTON								
1 ENG: 1-3 SEATS	35,383	0.9	4,577,878	3.4	2,886	10.4	446,560	13.0
1 ENG: 4+ SEATS	92,261	0.9	9,893,388	2.7	32,344	2.6	2,554,391	3.7
1 ENGINE: TOTAL	127,643	0.7	14,471,272	2.2	35,230	2.6	3,000,951	3.7
2 ENG: 1-6 SEATS	10,803	2.7	1,017,121	3.6	5,584	5.3	580,327	5.9
2 ENG: 7+ SEATS	4,372	4.3	445,382	6.0	2,280	8.4	345,120	7.9
2 ENGINE: TOTAL	15,175	2.3	1,462,503	3.1	7,864	4.5	925,447	4.8
PISTON: OTHER	12	9.1	627	20.8	2	47.7	155	41.1
PISTON: TOTAL	142,830	0.7	15,934,397	2.0	43,097	2.3	3,926,554	3.0
FIXED WING - TURBOPROP								
1 ENGINE: TOTAL	317	12.5	89,779	13.8	173	24.1	64,565	29.5
2 ENG: 1-12 SEATS	2,004	5.5	262,052	9.4	1,417	8.0	402,642	7.8
2 ENG: 13+ SEATS	122	7.8	28,122	12.8	71	11.9	29,871	11.2
2 ENGINE: TOTAL	2,127	5.2	290,174	8.6	1,488	7.6	432,512	7.3
TURBOPROP: OTHER	8	17.3	873	18.5	4	36.6	91	35.1
TURBOPROP: TOTAL	2,452	4.8	380,826	7.3	1,664	7.3	497,168	7.4

4.1 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

AIRCRAFT TYPE	DAY TOTAL				NIGHT TOTAL			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING - TURBOJET 2 ENGINE: TOTAL	1,127	6.5	271,601	9.5	1,496	5.5	591,640	5.6
TURBOJET: OTHER	57	11.0	12,919	23.6	39	17.2	14,921	18.1
TURBOJET: TOTAL	1,184	6.2	284,520	9.1	1,536	5.3	606,561	5.5
FIXED WING: TOTAL	146,466	0.7	16,599,746	1.9	46,297	2.1	5,030,283	2.6
ROTORCRAFT PISTON: TOTAL	1,158	2.2	282,365	4.9	83	30.5	31,944	24.0
1 ENG: TURBINE	1,538	4.8	849,905	7.6	295	24.0	168,556	27.7
MULTI-ENG: TURBINE	355	6.0	134,408	10.0	121	20.1	41,427	21.6
TURBINE: TOTAL	1,893	4.0	984,314	6.7	416	17.9	209,983	22.6
ROTORCRAFT: TOTAL	3,050	2.6	1,266,679	5.3	499	15.8	241,927	19.9
OTHER AIRCRAFT GLIDERS:	2,033	1.2	239,729	15.6	108	21.7	8,015	101.4
LIGHTER-THAN-AIR:	3,147	1.3	200,375	10.9	50	83.5	10,891	87.4
EXPERIMENTAL: HOME BUILT:	5,340	1.1	275,558	4.9	122	46.3	5,834	49.7
EXHIBITION:	2,443	0.8	144,397	7.5	42	45.8	2,469	41.2
OTHER:	2,173	4.6	251,120	9.6	521	19.1	62,853	20.7
TOTAL	164,651	0.6	18,977,610	1.7	47,639	2.1	5,362,270	2.6

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

4.2 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER VMC CONDITIONS
BY DAY/NIGHT BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

AIRCRAFT TYPE	VMC DAY				VMC NIGHT				VMC TOTAL			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING												
FIXED WING - PISTON												
1 ENG: 1-3 SEATS	34,727	0.8	4,552,627	3.5	1,988	13.8	413,902	13.9	36,715	0.2	4,966,529	3.8
1 ENG: 4+ SEATS	77,166	0.8	9,162,324	2.9	10,379	6.1	1,322,720	6.1	87,545	0.5	10,485,044	3.1
1 ENGINE: TOTAL	111,893	0.6	13,714,958	2.3	12,367	5.6	1,736,622	5.7	124,260	0.4	15,451,580	2.4
2 ENG: 1-6 SEATS	8,149	2.9	799,883	4.1	1,924	11.8	223,691	10.8	10,073	1.9	1,023,574	4.0
2 ENG: 7+ SEATS	3,272	4.7	301,967	7.2	977	16.0	132,455	14.2	4,248	2.3	434,422	6.7
2 ENGINE: TOTAL	11,421	2.4	1,101,850	3.6	2,900	9.5	356,146	8.6	14,321	1.5	1,457,995	3.4
PISTON: OTHER	12	8.5	593	21.0	0	157.7	6	214.4	12	5.1	600	20.3
PISTON: TOTAL	123,325	0.6	14,817,394	2.1	15,268	4.9	2,092,774	5.0	138,593	0.4	16,910,168	2.2
FIXED WING - TURBOPROP												
1 ENGINE: TOTAL	296	12.4	83,437	13.4	134	31.6	53,114	39.8	430	6.2	136,551	15.9
2 ENG: 1-12 SEATS	1,438	5.9	113,671	13.3	406	20.8	71,041	20.6	1,844	3.8	184,712	11.4
2 ENG: 13+ SEATS	95	8.4	16,356	16.4	15	33.6	5,059	27.2	110	7.4	21,414	14.0
2 ENGINE: TOTAL	1,533	5.6	130,026	11.8	421	20.1	76,100	19.3	1,954	3.6	206,126	10.3
TURBOPROP: OTHER	7	11.1	828	19.1	0	138.5	6	272.5	7	9.5	834	18.4
TURBOPROP: TOTAL	1,836	5.1	214,292	8.9	555	17.0	129,219	19.9	2,391	3.2	343,511	8.8

4.2 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER VMC CONDITIONS
BY DAY/NIGHT BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

AIRCRAFT TYPE	VMC DAY				VMC NIGHT				VMC TOTAL			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING - TURBOJET												
2 ENGINE: TOTAL	660	7.4	102,870	16.1	315	17.5	116,446	17.2	974	6.5	219,316	11.5
TURBOJET: OTHER	37	10.7	3,810	42.9	8	46.6	3,031	44.4	45	11.3	6,841	30.7
TURBOJET: TOTAL	697	7.0	106,680	15.6	323	17.1	119,476	16.8	1,020	6.3	226,157	11.2
FIXED WING: TOTAL	125,858	0.6	15,138,367	2.1	16,145	4.7	2,341,470	4.7	142,003	0.4	17,479,837	2.2
ROTORCRAFT												
PISTON: TOTAL	1,158	2.2	282,365	4.9	82	30.7	31,742	24.1	1,240	0.2	314,107	4.5
1 ENG: TURBINE	1,511	4.4	848,966	7.6	225	29.5	164,025	28.5	1,735	0.1	1,012,991	6.8
MULTI-ENG: TURBINE	277	8.7	131,503	10.3	84	25.4	38,888	22.9	361	4.1	170,391	7.7
TURBINE: TOTAL	1,788	3.9	980,469	6.8	309	22.6	202,913	23.4	2,097	0.7	1,183,382	5.9
ROTORCRAFT: TOTAL	2,946	2.5	1,262,834	5.4	391	18.9	234,655	20.5	3,337	0.5	1,497,489	4.8
OTHER AIRCRAFT												
GLIDERS:	2,026	0.7	239,306	15.6	8	188.2	4,756	161.4	2,034	0.5	244,061	17.9
LIGHTER-THAN-AIR:	3,096	1.4	199,664	11.0	50	83.5	10,891	87.4	3,146	0.0	210,555	11.5
EXPERIMENTAL:												
HOME BUILT:	5,299	0.9	275,000	4.9	56	87.7	3,471	77.0	5,355	0.0	278,471	4.9
EXHIBITION:	2,419	0.7	143,792	7.5	8	199.1	378	199.7	2,426	0.2	144,170	7.6
OTHER:	1,949	3.9	234,976	10.3	217	35.4	31,893	31.6	2,166	2.6	266,868	11.0
TOTAL	143,592	0.5	17,493,946	1.9	16,875	4.5	2,627,511	4.6	160,467	0.3	20,121,457	1.9

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

4.3 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
BY DAY/NIGHT BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

AIRCRAFT TYPE	IMC DAY				IMC NIGHT				IMC TOTAL			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING												
FIXED WING - PISTON												
1 ENG: 1-3 SEATS	656	17.5	25,250	19.0	898	13.5	32,658	18.3	1,554	7.0	57,908	12.6
1 ENG: 4+ SEATS	15,094	4.3	731,065	4.6	21,965	3.0	1,231,672	3.7	37,059	1.0	1,962,737	3.1
1 ENGINE: TOTAL	15,750	4.2	756,315	4.5	22,863	3.0	1,264,330	3.7	38,613	1.0	2,020,645	3.0
2 ENG: 1-6 SEATS	2,654	8.4	217,238	8.3	3,660	6.5	356,636	7.1	6,314	3.0	573,873	5.2
2 ENG: 7+ SEATS	1,101	11.2	143,415	11.9	1,304	10.0	212,665	10.2	2,404	5.5	356,081	6.6
2 ENGINE: TOTAL	3,754	6.8	360,653	6.9	4,964	5.5	569,301	5.9	8,719	2.6	929,954	4.1
PISTON: OTHER	0	*	34	*	2	44.3	149	42.0	3	40.2	183	37.1
PISTON: TOTAL	19,505	3.6	1,117,002	3.8	27,830	2.6	1,833,780	3.1	47,335	0.9	2,950,782	2.4
FIXED WING - TURBOPROP												
1 ENGINE: TOTAL	21	80.3	6,342	96.7	38	55.8	11,451	65.6	59	41.7	17,793	51.4
2 ENG: 1-12 SEATS	567	14.0	148,381	14.1	1,011	9.0	331,600	9.3	1,578	5.4	479,981	6.3
2 ENG: 13+ SEATS	27	21.7	11,767	20.7	56	13.6	24,812	13.1	83	9.4	36,579	9.6
2 ENGINE: TOTAL	594	13.4	160,148	13.1	1,067	8.6	356,413	8.7	1,661	5.2	516,560	5.9
TURBOPROP: OTHER	1	76.7	45	67.9	4	36.8	85	32.6	5	24.7	130	22.1
TURBOPROP: TOTAL	616	13.2	166,535	13.1	1,110	8.5	367,948	8.7	1,726	5.2	534,483	6.0

4.3 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
BY DAY/NIGHT BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

AIRCRAFT TYPE	IMC DAY			IMC NIGHT			IMC TOTAL		
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN
FIXED WING - TURBOJET									
2 ENGINE: TOTAL	467	13.0	168,730	1,182	6.8	475,194	1,649	4.6	643,924
TURBOJET: OTHER	19	27.9	9,109	31	20.5	11,891	51	13.6	20,999
TURBOJET: TOTAL	487	12.5	177,839	1,213	6.7	487,084	1,700	4.5	664,924
FIXED WING: TOTAL	20,608	3.5	1,461,377	30,152	2.5	2,688,812	50,760	0.9	4,150,189
ROTORCRAFT									
PISTON: TOTAL	0	*	0	0	*	203	0	*	203
1 ENG: TURBINE	27	*	939	70	34.9	4,531	97	0.5	5,470
MULTI-ENG: TURBINE	77	19.7	2,906	37	35.6	2,539	115	9.0	5,445
TURBINE: TOTAL	104	33.4	3,845	107	25.8	7,070	212	0.2	10,915
ROTORCRAFT: TOTAL	104	33.4	3,845	108	25.7	7,272	212	0.2	11,117
OTHER AIRCRAFT									
GLIDERS:	7	*	423	100	21.4	3,259	107	9.8	3,683
LIGHTER-THAN-AIR:	51	1.0	710	0	*	0	51	1.0	710
EXPERIMENTAL:	41	67.2	559	66	42.0	2,363	107	0.5	2,922
HOME BUILT:	24	48.3	605	35	34.0	2,091	59	8.4	2,696
EXHIBITION:	224	32.9	16,144	304	25.3	30,960	528	10.5	47,104
OTHER:									
TOTAL	21,059	3.4	1,483,664	30,764	2.4	2,734,758	51,823	0.9	4,218,422

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

4.4 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 1

REGION	DAY TOTAL				NIGHT TOTAL			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
ALASKAN	4,623	1.3	559,478	9.8	335	14.8	28,852	21.3
CENTRAL	9,126	2.6	1,022,312	9.7	2,787	9.4	375,845	10.5
EASTERN	20,526	1.8	1,950,858	4.8	6,114	6.7	573,735	7.0
GREAT LAKES	30,497	1.4	2,700,059	3.8	8,627	5.5	1,038,128	5.9
NEW ENGLAND	7,231	3.4	737,799	5.5	1,891	12.3	204,857	13.8
NORTHWEST MT.	17,350	1.8	2,184,603	5.5	3,903	8.3	371,856	8.1
SOUTHERN	26,513	1.6	3,313,326	4.7	9,405	5.2	1,210,551	5.8
SOUTHWESTERN	21,332	1.7	2,799,601	6.0	5,829	6.6	621,418	7.8
WESTERN-PACIFIC	27,464	1.5	3,710,540	5.0	8,746	5.4	936,071	6.8
TOTAL	164,662	0.6	18,978,568	1.9	47,635	2.3	5,361,311	2.6

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

4.5 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER VMC CONDITIONS
BY DAY/NIGHT BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 1

REGION	VMC DAY			VMC NIGHT			VMC TOTAL		
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN
ALASKAN	4,575	1.1	556,992	274	5.5	25,628	4,849	1.1	582,620
CENTRAL	8,080	1.5	940,386	1,154	8.7	187,585	9,234	1.7	1,127,971
EASTERN	17,698	1.1	1,757,372	2,020	6.7	257,440	19,718	1.2	2,014,813
GREAT LAKES	26,613	0.8	2,394,131	2,949	6.2	448,285	29,562	1.0	2,842,416
NEW ENGLAND	6,155	2.1	680,506	693	11.5	104,803	6,848	2.2	785,309
NORTHWEST MT.	15,517	1.0	2,047,365	1,401	8.1	195,713	16,917	1.2	2,243,078
SOUTHERN	22,585	1.0	2,975,683	3,186	5.9	558,412	25,770	1.1	3,534,097
SOUTHWESTERN	18,569	0.9	2,580,535	2,130	6.4	279,892	20,699	1.1	2,860,429
WESTERN-PACIFIC	23,814	0.9	3,563,007	3,068	5.7	569,102	26,882	1.0	4,132,109
TOTAL	143,606	0.4	17,495,950	16,873	2.4	2,626,860	160,479	0.4	20,122,820

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

4.6 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
BY DAY/NIGHT BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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REGION	IMC DAY				IMC NIGHT				IMC TOTAL			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
ALASKAN	47	65.0	2,486	95.6	61	76.7	3,224	95.5	109	51.6	5,709	68.3
CENTRAL	1,045	19.1	81,926	19.9	1,633	14.9	188,261	16.3	2,678	11.6	270,187	13.7
EASTERN	2,828	11.4	193,485	12.9	4,094	9.5	316,295	10.8	6,922	7.0	509,780	9.1
GREAT LAKES	3,884	9.9	305,927	10.4	5,678	7.8	589,843	8.4	9,562	5.8	895,770	7.0
NEW ENGLAND	1,076	19.8	57,293	21.3	1,198	18.3	100,054	23.9	2,274	13.2	157,347	16.8
NORTHWEST MT.	1,833	14.6	137,240	15.8	2,503	12.3	176,143	13.6	4,336	9.1	313,383	10.9
SOUTHERN	3,928	9.5	337,643	9.6	6,219	7.5	652,139	8.2	10,147	5.6	989,782	6.9
SOUTHWESTERN	2,763	11.4	219,067	13.6	3,700	9.8	341,526	12.3	6,463	7.2	560,592	9.7
WESTERN-PACIFIC	3,650	9.9	147,535	11.9	5,678	7.8	366,969	12.5	9,328	5.9	514,504	10.4
TOTAL	21,056	4.2	1,482,600	4.7	30,762	3.4	2,734,454	4.1	51,818	2.5	4,217,051	3.3

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
1ENG PIST(1)	3,316	8.5	253,474	12.2	73	*	4,651	*
1ENG PIST(2)	395	3.9	39,421	12.7	55	81.6	4,425	*
2ENG PIST(3)	218	22.5	30,496	31.5	51	*	6,037	*
2ENG PIST(4)	898	28.2	110,467	30.6	467	47.3	68,977	48.5
PIST OTHR(5)	5	58.4	626	64.1	2	79.2	154	80.2
1ENG TURB(6)	49	49.7	10,163	53.0	27	81.3	10,045	90.9
2ENG TURB(7)	88	25.9	9,810	36.2	55	36.0	11,456	30.4
2ENG TURB(8)	17	34.5	3,863	43.5	11	42.8	5,227	37.7
TURB OTHR(9)	7	55.4	872	43.6	4	71.1	90	96.2
2ENG T JT(10)	80	51.8	27,005	53.8	53	72.3	15,646	80.1
T JT OTHR(11)	12	38.3	563	56.8	4	65.4	641	62.9
PIST HEL(12)	93	13.9	11,948	22.1	3	*	351	*
1ENG HEL(13)	54	13.3	10,986	34.4	16	90.3	1,942	93.9
MENG HEL(14)	85	18.7	43,358	32.0	25	*	7,711	*
GLIDER	2,042	1.9	239,674	19.3	108	59.7	8,013	*
LTR THAN AIR	3,149	2.6	200,328	12.9	50	*	10,887	*
EXP-HOME BLT	5,349	2.7	275,495	6.1	122	*	5,832	*
EXP-EXHIBIT	2,448	1.2	144,364	9.1	42	*	2,468	*

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
EXP-OTHER	2,179	12.8	251,061	18.0	522	53.7	62,838	59.3
AEROSPAS355	36	61.3	9,044	59.7	20	*	4,936	*
AGUSTAA109	71	6.9	7,377	21.4	16	*	2,487	*
AIRPTSA	45	18.0	2,499	32.5	0	0.0	0	0.0
AIRTRCAT300	231	16.2	71,265	18.8	3	*	1,085	*
AIRTRCAT400	111	29.4	43,115	31.1	23	*	14,366	*
AIRTRCAT500	83	32.7	40,328	34.0	2	*	1,278	*
AMDFALC10	25	60.3	9,707	62.4	40	37.1	19,961	38.3
AMDFALC20	35	66.3	13,353	70.4	52	45.1	23,679	41.8
AMDFALC50	26	57.6	11,459	55.7	32	39.8	13,294	41.0
AMRGENAG5B	91	29.3	20,622	21.5	57	57.5	5,422	*
ARCTICS1A	12	26.6	463	30.1	1	*	50	*
ARONCA15	128	0.4	12,724	20.6	1	*	46	*
ARONCA65	203	22.3	7,260	24.9	2	*	64	*
ARONCAC3	10	44.9	191	59.4	0	0.0	0	0.0
AYRESS2 (1)	338	21.4	162,783	23.5	23	*	6,666	*
AYRESS2 (6)	46	38.6	17,364	48.2	3	*	2,118	*
BBAVIA11	229	12.4	12,301	20.4	1	*	219	*

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
BBAVIA8	104	12.6	18,028	17.2	2	*	299	*
BEECH100	59	54.0	9,832	68.2	52	56.5	14,362	51.9
BEECH17	64	15.1	2,546	28.0	11	*	364	*
BEECH18	78	40.6	19,590	47.8	22	*	2,838	*
BEECH1900	1	*	544	*	2	93.5	1,816	99.0
BEECH1900D	1	*	96	*	1	*	741	*
BEECH200	321	40.8	45,606	75.4	322	34.8	131,304	30.1
BEECH23	2,105	11.7	198,422	13.2	675	46.4	53,941	69.6
BEECH300	46	45.1	12,763	57.5	39	39.7	15,915	36.7
BEECH33	2,118	11.9	264,970	18.0	1,003	29.2	83,393	36.2
BEECH35 (2)	6,403	8.1	446,633	10.2	2,035	32.2	112,445	42.2
BEECH35 (6)	41	53.1	8,478	57.4	12	*	1,582	*
BEECH36	2,643	15.3	263,298	22.0	1,248	36.2	124,416	41.0
BEECH45	147	22.8	17,597	25.3	23	97.5	1,401	*
BEECH50	57	40.1	4,213	41.4	29	80.9	1,461	89.6
BEECH55	1,629	23.0	115,995	27.2	975	39.0	90,856	41.5
BEECH56	21	53.8	1,154	58.4	7	*	793	*
BEECH58	1,212	19.8	140,925	26.2	661	37.3	108,506	37.8

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
BEECH60	212	38.1	13,529	55.2	82	98.9	10,967	90.5
BEECH65	7	58.7	474	64.9	2	*	376	*
BEECH76	171	22.5	38,205	23.9	98	40.4	18,617	52.9
BEECH77	93	28.1	9,756	29.8	13	*	1,664	*
BEECH80	19	78.7	4,856	75.4	17	79.0	8,904	80.3
BEECH90	628	39.0	96,024	45.7	472	48.0	122,124	41.1
BEECH95	255	21.9	40,928	21.4	131	43.7	14,667	58.2
BEECH99	3	80.8	814	86.2	1	*	706	*
BELL204	105	1.4	23,324	18.4	5	*	302	*
BELL206	1,113	5.6	557,881	11.7	182	*	95,074	*
BELL212	22	2.3	6,067	28.9	1	*	542	*
BELL222	40	36.1	8,374	33.7	18	*	4,240	*
BELL412	39	32.8	18,085	25.7	18	95.4	7,193	*
BELL47	257	17.5	65,433	19.1	6	*	1,371	*
BLANCA11	28	20.6	2,017	24.5	0	0.0	6	*
BLANCA1413	68	2.5	2,473	30.8	2	*	85	*
BLANCA1419	118	9.2	5,951	22.2	11	*	407	*
BLANCA17	822	19.9	48,400	27.2	403	47.4	18,217	62.5

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
BLANCA7 (1)	760	9.7	150,133	10.8	59	82.5	7,179	83.8
BLANCA7 (2)	14	3.5	637	22.2	0	0.0	0	0.0
BLANCA8	151	16.8	10,256	25.4	3	*	229	*
BLANKA/BBAVI	916	9.8	74,586	13.2	26	*	2,661	*
BNORMB2	10	53.1	2,454	56.8	0	0.0	157	*
BOEING75	486	11.0	38,198	15.9	4	*	531	*
BOLKMS105	19	22.2	8,217	20.5	6	*	2,916	*
BOLKMS117	40	34.6	18,719	34.0	16	*	4,907	*
BRAERODH125	47	69.3	16,510	66.3	64	52.5	31,081	52.5
CESSNA120	361	16.6	27,725	17.9	30	*	2,612	*
CESSNA140	807	16.9	49,184	32.7	43	*	4,048	*
CESSNA150	9,586	7.2	2,109,917	9.0	1,349	40.9	303,543	40.4
CESSNA170	1,545	8.4	106,466	14.7	301	68.0	13,581	*
CESSNA172	19,868	4.4	2,738,225	11.0	4,854	23.8	503,324	31.4
CESSNA175	797	6.6	46,964	14.6	88	*	5,557	*
CESSNA177	2,312	10.4	195,073	14.7	711	45.8	59,873	57.1
CESSNA180	1,975	7.8	168,993	10.6	496	49.0	20,419	68.6
CESSNA182	13,399	6.1	1,169,411	12.5	4,445	22.7	260,918	28.4

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY			NIGHT		
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
CESSNA185	1,063	7.4	150,647	15.2	148	91.6
CESSNA188	725	10.9	169,461	12.8	4	*
CESSNA190	16	14.5	460	55.4	3	*
CESSNA195	242	4.8	13,510	16.7	22	*
CESSNA205	115	16.0	9,059	19.6	27	84.2
CESSNA206	1,987	11.6	238,189	20.5	427	75.0
CESSNA207	33	46.5	4,278	53.1	6	*
CESSNA208	61	*	13,423	*	115	85.0
CESSNA210	5,107	11.5	455,955	14.6	2,576	26.0
CESSNA303	58	41.5	13,325	41.8	37	66.0
CESSNA305	88	15.5	8,982	19.8	2	*
CESSNA310	2,152	20.5	192,525	25.8	1,197	37.7
CESSNA320	108	19.6	7,899	21.1	54	40.9
CESSNA336	14	31.9	876	56.9	3	*
CESSNA337	638	16.3	38,372	20.4	161	70.8
CESSNA340	536	34.7	41,897	42.4	385	48.8
CESSNA401	97	47.1	7,272	53.3	32	*
CESSNA402	128	54.6	35,113	57.0	87	74.9
						20,616
						74.7

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY			NIGHT		
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
CESSNA421	683	35.5	52,697	42.0	379	55.8
CESSNA425	99	47.4	12,401	60.2	79	54.7
CESSNA441	47	55.0	7,544	77.8	59	42.0
CESSNA500	175	63.3	35,681	83.9	334	31.2
CESSNA501	85	57.5	13,472	65.0	67	60.9
CESSNA650	50	73.0	16,991	76.4	80	45.9
CESSNA750	10	24.2	267	50.5	1	*
CHILDS1	133	14.8	12,978	17.4	2	*
CHILDS2	36	16.2	2,994	26.9	0	0.0
CHRISHUSKY	45	17.0	8,358	20.3	2	*
CNDAIRCL600	42	76.9	14,465	83.7	78	43.4
COMWTH185	24	21.2	981	30.1	0	0.0
CONAERLA4	323	10.3	19,820	18.0	70	82.7
CURTISTRVAIR	14	19.6	1,355	32.9	0	0.0
CVACBT/L13	30	28.6	1,570	31.4	1	*
DHVDH82	31	21.8	1,006	26.7	0	0.0
DHVDHC2	164	8.9	39,936	13.0	4	*
DHVDHC6	8	61.7	5,650	62.5	1	*

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOW
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOW	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOW	PERCENT STANDARD ERROR
DOUGDC3	51	72.5	4,935	*	29	*	7,657	94.2
EAGLEBAL	17	16.2	3,499	17.7	0	0.0	0	0.0
EMB110	2	*	361	*	2	*	616	*
ENSTRMF28-12	65	20.1	8,929	31.2	6	*	3,439	*
ENSTRMF28-13	72	5.0	9,309	31.5	11	92.0	4,031	*
FRCHLD24	41	1.2	1,769	23.5	1	*	78	*
FRCHLDN62	40	16.9	2,252	28.5	6	62.9	72	61.0
GRUMAVAA1	198	23.7	14,348	27.0	16	*	1,229	*
GRUMAVAA5	788	18.5	67,791	23.8	297	59.8	17,228	75.0
GRUMAVG164	184	20.7	85,440	23.3	4	*	2,278	*
GRUMAVG21	17	46.1	1,668	56.6	0	0.0	68	*
GULSTM112	406	22.9	31,926	25.6	175	60.5	13,282	66.3
GULSTM500	142	32.3	21,133	38.5	63	58.3	9,730	62.3
GULSTM560	27	83.4	2,031	*	14	*	784	*
GULSTM680	86	58.3	9,427	63.9	25	*	3,503	*
GULSTM680TP	23	75.4	1,711	88.3	10	*	1,660	*
GULSTM690TP	177	44.2	24,502	54.6	91	73.7	14,296	69.0
GULSTMAA1	246	16.0	18,653	16.5	33	91.2	1,809	*

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
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EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
GULSTMAA5	689	23.2	48,570	23.6	297	61.6	17,081	74.6
GULSTMG1159	39	*	13,830	*	140	38.8	81,534	40.6
GULSTMG159	7	62.4	2,426	67.7	7	53.2	3,142	49.5
GULSTMG44	42	16.4	3,442	22.6	8	97.1	509	*
GULSTMGA7	29	38.5	2,155	39.3	18	62.7	1,061	71.4
HELIOH295	34	6.8	3,336	38.0	4	*	356	*
HILLERUH12	66	23.8	13,925	26.2	10	*	3,077	*
HUGHES269	189	26.0	66,985	28.3	14	*	4,498	*
HUGHES369-12	27	41.7	13,494	43.2	12	84.6	9,013	87.0
HUGHES369-13	412	0.1	166,567	18.0	64	*	26,828	*
HWKSLYDH125	108	60.3	25,205	65.5	161	37.7	54,511	33.8
HYNESB2	13	27.3	584	30.2	1	*	39	*
INTRCP200	27	26.5	1,569	37.3	10	93.8	385	*
ISRAEL1121	6	92.5	306	*	4	86.8	433	89.6
ISRAEL1124	54	69.8	15,718	72.1	62	46.4	28,256	49.0
JBNSTRDGA15	18	14.8	1,562	54.0	3	*	193	*
LEAR24	24	97.5	13,985	*	36	68.5	13,686	70.9
LEAR25	27	*	5,097	*	36	68.5	18,499	70.7

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
LEAR35	102	61.0	30,162	75.5	128	46.5	58,523	45.7
LEAR55	18	*	5,184	*	29	77.2	11,272	67.1
LKHEED1329	6	64.3	892	70.1	4	72.7	981	65.4
LUSCOM8	646	12.6	42,717	16.8	12	*	1,166	*
MAULEM4	116	8.3	9,043	18.7	11	*	789	*
MAULEM5	290	6.3	32,142	32.7	53	*	3,089	*
MAULEM6	63	10.0	5,849	71.7	6	*	368	*
MAULEM7	84	7.4	8,718	14.4	15	83.4	753	*
MCLISHFUNKB	43	18.0	1,570	21.9	0	0.0	0	0.0
MILITARY204	47	1.0	9,465	12.5	4	*	722	*
MNCOU90	3	50.0	68	73.8	0	0.0	0	0.0
MNMITEM18	25	33.9	1,120	43.1	0	0.0	0	0.0
MOONEYM20	6,069	9.7	524,864	14.2	2,777	24.5	186,071	30.6
MTSBSIMU2	85	56.3	8,889	70.7	50	82.5	11,314	71.7
MTSBSIMU300	12	93.0	2,940	*	23	42.5	6,560	43.8
NAMERT28	72	22.6	3,512	22.9	5	*	297	*
NAMERT6	81	25.7	4,141	29.3	4	*	284	*
NAVIONNAVION	633	17.7	34,568	19.5	137	95.1	5,919	96.0

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
NORWST65	31	29.7	3,131	38.4	0	0.0	0	0.0
PIPER600	262	38.1	23,440	39.8	156	64.9	12,964	62.4
PIPER602	189	40.7	14,704	45.0	110	71.1	12,647	66.3
PIPERJ3	2,184	7.6	130,273	12.0	3	*	184	*
PIPERJ4	33	16.2	1,772	25.1	0	0.0	0	0.0
PIPERJ5	87	18.6	4,759	25.5	2	98.2	13	*
PIPERPA14	43	1.1	2,577	61.8	0	0.0	10	*
PIPERPA15	50	19.8	1,974	21.8	0	0.0	0	0.0
PIPERPA16	72	0.7	4,458	16.5	2	*	101	*
PIPERPA17	40	20.4	2,231	32.8	0	0.0	3	*
PIPERPA18	1,607	11.3	183,381	24.5	44	*	2,827	*
PIPERPA20	178	0.3	8,410	35.0	6	*	638	*
PIPERPA22-1	297	22.7	27,796	24.6	44	*	1,130	*
PIPERPA22-2	2,063	2.4	127,713	12.8	127	*	7,234	*
PIPERPA23	1,727	21.6	156,299	22.3	837	45.6	54,278	55.1
PIPERPA24	2,672	11.3	168,304	15.1	864	43.0	44,480	53.9
PIPERPA25	397	14.4	62,437	18.2	0	0.0	121	*
PIPERPA28-1	3,551	12.0	318,257	14.7	657	52.4	48,224	58.3

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4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY				NIGHT			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
SNIAS350	114	25.4	72,174	31.6	71	64.6	39,614	99.5
SOCATATB10	29	34.8	3,008	39.8	16	76.3	1,039	*
SOCATATB20	112	65.5	8,685	74.9	85	88.6	8,142	94.3
STNSON10	12	28.2	526	38.9	1	*	19	*
STNSONL5	24	20.0	1,479	30.4	0	0.0	123	*
STNSONV77	20	24.9	710	26.9	2	*	113	*
STOLAMRC3	74	0.7	3,451	19.5	1	*	124	*
SWRNGNA226-7	24	50.2	4,448	55.5	26	45.9	7,393	38.9
SWRNGNA226-8	5	*	1,127	*	5	*	1,392	98.2
SWRNGNSA227	17	64.8	8,712	69.9	8	*	1,948	*
SWRNGNSA26	10	72.6	994	89.5	8	83.2	1,730	81.2
TCRAFKD	57	17.6	3,067	19.4	9	92.3	263	97.0
TCRAFT19	51	14.9	4,709	18.1	1	*	78	*
TCRAFTBC	609	12.5	39,584	15.3	0	0.0	8	*
TCRAFTBL	53	16.9	2,072	23.1	0	0.0	0	0.0
TH55	16	32.8	3,128	36.0	4	*	1,491	*
UNIVACGC1	140	18.1	7,991	18.8	14	*	305	*
UNIVAR108	734	1.7	36,857	13.1	33	*	2,323	*

4.7 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN
BY DAY/NIGHT BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	DAY			NIGHT		
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
UNIVAR415	962	11.5	42,593	*	519	*
VARGA2150	65	25.1	4,235	*	269	*
WACO-1	89	19.1	4,464	0.0	4	*
WACO-2	55	0.9	1,627	38.9	57	*
WTHRLY201	22	18.9	5,599	0.0	24	*
TOTALS	165,679	1.1	18,978,824	4.2	5,361,058	5.5

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.
NUMBER IN PARENTHESIS FOLLOWING GROUP NAME INDICATES THE AIRCRAFT TYPE TO WHICH THESE AIRCRAFT BELONG. SEE
THE FOLLOWING PAGE FOR A DESCRIPTION OF THESE AIRCRAFT TYPES. FOR ADDITIONAL INFORMATION, SEE APPENDIX B FOR
AIRCRAFT GROUP NAMES AND FAA MANUFACTURER/MODEL CODES.

AIRCRAFT DEFINITIONS AND TYPES USED FOR THE GENERAL AVIATION SURVEY

AIRCRAFT TYPE DEFINITION	AIRCRAFT TYPE
FIXED-WING PISTON: 1 ENGINE - 1-3 SEATS	(1)
FIXED-WING PISTON: 1 ENGINE 4 + SEATS	(2)
FIXED-WING PISTON: 2 ENGINE - 1-6 SEATS	(3)
FIXED-WING PISTON: 2 ENGINE - 7 + SEATS	(4)
FIXED-WING PISTON: OTHER	(5)
FIXED WING-TURBOPROP: 1 ENGINE	(6)
FIXED WING-TURBOPROP: 2 ENGINE - 1-12 SEATS	(7)
FIXED WING-TURBOPROP: 2 ENGINE - 13 + SEATS	(8)
FIXED WING-TURBOPROP: OTHER	(9)
FIXED WING - TURBOJET: 2 ENG	(10)
FIXED WING - TURBOJET: OTHER	(11)
ROTORCRAFT: PISTON	(12)
ROTORCRAFT: 1 ENGINE - TURBINE	(13)
ROTORCRAFT: MULTI-ENGINE - TURBINE	(14)
OTHER AIRCRAFT: GLIDERS	(15)
OTHER AIRCRAFT: LIGHTER-THAN-AIR	(16)
OTHER AIRCRAFT: EXPERIMENTAL - HOME BUILT	(17)
OTHER AIRCRAFT: EXPERIMENTAL - EXHIBITION	(18)
OTHER AIRCRAFT: EXPERIMENTAL - OTHER	(19)

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
1ENG PIST(1)	71	56.6	1,701	64.2	3,318	6.7	256,424	11.6
1ENG PIST(2)	59	15.7	2,176	33.4	392	2.7	41,669	15.4
2ENG PIST(3)	78	26.2	13,080	31.9	190	11.3	23,453	29.1
2ENG PIST(4)	533	19.5	67,911	21.1	832	22.6	111,533	30.4
PIST OTHR(5)	3	64.5	182	66.1	5	53.1	600	58.3
1ENG TURB(6)	12	37.9	2,700	38.8	64	27.1	17,507	30.8
2ENG TURB(7)	66	18.4	14,760	19.5	76	24.2	6,504	50.0
2ENG TURB(8)	13	28.3	5,740	30.2	15	35.7	3,349	55.8
TURB OTHR(9)	5	41.0	129	40.1	6	42.4	834	38.5
2ENG T.JT(10)	59	53.7	15,604	56.3	74	51.6	27,047	53.9
TJT OTHR(11)	6	38.9	858	44.1	10	37.3	347	*
PIST HEL(12)	0	0.0	0	0.0	96	12.8	12,299	21.6
1ENG HEL(13)	0	0.0	0	0.0	70	0.7	12,929	40.2
MENG HEL(14)	36	1.4	1,007	24.4	73	18.4	50,062	34.3
GLIDER	107	19.2	3,681	97.3	2,043	1.0	244,004	22.2
LTR THAN AIR	51	1.0	710	0.1	3,149	0.0	210,506	13.4
EXP-HOME BLT	107	0.5	2,920	36.1	5,364	0.0	278,406	5.7
EXP-EXHIBIT	59	16.0	2,694	24.5	2,432	0.4	144,136	9.0

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
EXP-OTHER	528	21.0	47,093	30.0	2,172	5.1	266,806	20.1
AEROSPAS355	2	84.0	64	80.4	54	5.0	13,918	25.6
AGUSTAA109	17	23.0	667	28.7	70	7.6	9,198	27.1
AIRPTSA	0	0.0	0	0.0	45	18.0	2,499	32.5
AIRTRCAT300	0	0.0	0	0.0	234	15.1	72,351	17.4
AIRTRCAT400	0	0.0	0	0.0	134	16.1	57,482	18.5
AIRTRCAT500	0	0.0	0	0.0	85	29.4	41,606	30.2
AMDFALC10	46	31.1	22,063	32.2	19	72.5	7,605	77.4
AMDFALC20	61	31.9	28,999	33.4	26	75.1	8,033	93.1
AMDFALC50	40	31.9	18,922	33.0	17	74.5	5,832	77.6
AMRGENAG5B	50	27.3	2,057	56.1	98	15.9	23,987	18.3
ARCTICS1A	0	0.0	0	0.0	13	22.7	514	30.8
ARONCA15	0	0.0	0	0.0	129	0.4	12,770	20.5
ARONCA65	0	0.0	0	0.0	205	21.3	7,324	24.2
ARONCAC3	0	0.0	0	0.0	10	44.9	191	59.4
AYRESS2 (1)	0	0.0	0	0.0	361	16.0	169,449	18.7
AYRESS2 (6)	0	0.0	0	0.0	50	31.3	19,482	42.2
BBAVIA11	1	*	480	*	229	12.2	12,040	19.5

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
BBAVIA8	0	0.0	0	0.0	106	11.6	18,328	16.7
BEECH100	48	41.1	14,463	42.4	62	46.7	9,730	68.5
BEECH17	23	2.1	723	27.3	52	4.9	2,188	22.7
BEECH18	26	56.6	5,983	60.1	75	38.2	16,445	50.9
BEECH1900	2	95.7	1,794	*	1	*	567	*
BEECH1900D	1	97.9	806	*	1	*	30	*
BEECH200	344	22.8	145,258	24.4	299	38.4	31,652	91.9
BEECH23	647	14.0	24,030	25.4	2,133	4.9	228,334	13.1
BEECH300	47	28.5	20,611	29.3	37	47.1	8,068	66.0
BEECH33	1,244	4.9	73,849	11.5	1,877	5.1	274,515	19.3
BEECH35 (2)	2,562	9.2	104,913	18.7	5,877	4.5	454,163	10.9
BEECH35 (6)	13	40.0	1,176	43.8	41	46.4	8,883	51.6
BEECH36	1,657	7.9	134,259	14.9	2,233	7.5	253,455	24.1
BEECH45	23	33.8	729	51.3	147	17.8	18,269	23.4
BEECH50	31	19.3	1,415	33.3	55	11.5	4,258	29.1
BEECH55	1,015	16.8	75,658	19.5	1,589	11.0	131,194	29.2
BEECH56	10	53.0	213	81.1	18	30.8	1,734	34.5
BEECH58	846	14.9	122,442	17.8	1,027	12.6	126,990	30.1

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
BEECH60	157	28.7	15,970	34.4	137	34.7	8,526	*
BEECH65	3	62.6	297	70.4	7	50.3	552	62.0
BEECH76	110	15.7	14,165	25.5	159	11.2	42,657	23.4
BEECH77	10	60.0	694	72.7	96	19.2	10,727	22.5
BEECH80	14	87.7	5,239	92.7	22	74.6	8,521	*
BEECH90	526	24.5	149,871	27.0	575	34.1	68,277	55.2
BEECH95	127	22.5	10,364	24.6	259	11.3	45,231	17.2
BEECH99	2	77.5	894	75.7	2	84.1	625	*
BELL204	2	16.7	32	47.3	108	0.5	23,595	18.4
BELL206	64	0.8	1,878	19.5	1,231	0.0	651,078	13.1
BELL212	0	0.0	0	0.0	23	2.1	6,610	30.6
BELL222	19	2.6	1,064	66.3	40	14.2	11,550	34.2
BELL412	15	38.7	1,769	53.5	42	19.1	23,509	19.0
BELL47	0	0.0	0	0.0	263	16.5	66,803	18.1
BLANCA11	0	0.0	0	0.0	28	20.4	2,024	24.3
BLANCA1413	1	54.1	52	37.0	68	1.9	2,506	30.4
BLANCA1419	19	2.5	346	33.8	110	0.5	6,013	22.5
BLANCA17	457	9.7	19,228	31.4	768	7.8	47,389	24.6

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
BLANCA7 (1)	3	57.4	294	85.9	816	7.1	157,018	8.9
BLANCA7 (2)	0	0.0	0	0.0	14	3.5	637	22.2
BLANCA8	0	0.0	0	0.0	154	15.4	10,485	25.0
BLANKA/BBAVI	9	*	22	*	932	9.0	77,225	13.4
BNORMBN2	2	83.6	10	82.5	8	42.9	2,601	52.9
BOEING75	0	0.0	0	0.0	489	10.6	38,730	15.6
BOLKMS105	0	0.0	0	0.0	25	2.0	11,133	13.5
BOLKMS117	2	64.2	44	55.6	54	4.8	23,582	25.4
BRAERODH125	71	30.4	34,890	31.1	39	64.9	12,701	84.0
CESSNA120	10	72.2	73	77.0	381	13.1	30,263	15.5
CESSNA140	26	*	333	*	824	13.8	52,900	31.1
CESSNA150	626	24.4	24,866	33.3	10,310	4.6	2,388,594	8.6
CESSNA170	180	41.2	2,312	56.4	1,666	4.5	117,734	15.6
CESSNA172	5,092	6.7	250,842	15.6	19,629	2.0	2,990,708	12.1
CESSNA175	88	35.5	1,849	39.7	797	4.3	50,672	15.2
CESSNA177	900	7.5	50,443	18.8	2,124	4.6	204,504	16.4
CESSNA180	390	23.1	9,501	27.5	2,081	4.6	179,912	10.4
CESSNA182	5,511	4.2	220,749	8.9	12,333	2.5	1,209,580	12.5

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
CESSNA185	209	14.1	3,426	34.6	1,002	3.6	155,790	16.1
CESSNA188	4	*	17	*	724	10.1	170,465	12.5
CESSNA190	3	14.2	83	59.4	16	6.3	436	41.5
CESSNA195	22	2.2	697	40.1	242	0.2	14,063	15.9
CESSNA205	24	25.0	1,454	33.3	118	5.8	9,388	17.6
CESSNA206	721	9.8	37,125	22.2	1,693	6.1	233,427	21.3
CESSNA207	3	64.7	160	60.7	36	6.1	4,792	34.5
CESSNA208	35	*	13,912	*	142	62.2	49,037	89.8
CESSNA210	2,946	7.6	204,042	13.1	4,738	5.8	467,737	16.1
CESSNA303	44	23.0	6,277	24.8	51	21.6	13,319	32.4
CESSNA305	4	58.6	302	69.1	87	14.1	8,946	19.0
CESSNA310	1,169	17.5	109,379	27.0	2,181	9.6	197,070	24.4
CESSNA320	56	17.2	2,656	19.2	105	9.4	8,128	17.4
CESSNA336	3	60.6	319	64.4	14	15.9	808	56.8
CESSNA337	188	17.6	12,549	21.5	611	5.6	38,456	18.9
CESSNA340	441	19.5	53,033	24.4	480	18.6	36,990	40.0
CESSNA401	56	40.9	5,969	42.8	73	49.2	6,692	80.0
CESSNA402	76	48.8	23,582	50.2	138	43.6	32,147	55.5

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
CESSNA421	467	26.9	57,723	31.2	595	32.5	47,052	54.1
CESSNA425	82	30.0	21,815	32.2	97	39.7	9,113	70.2
CESSNA441	58	27.6	22,263	29.1	48	48.2	6,948	82.2
CESSNA500	332	26.1	118,121	27.2	177	61.1	30,694	86.1
CESSNA501	90	30.8	24,477	32.5	62	64.0	6,606	*
CESSNA650	84	31.2	38,867	32.1	47	68.5	13,078	90.2
CESSNAT50	1	93.6	74	91.1	10	11.7	284	48.0
CHILDS1	5	60.1	144	68.6	130	13.3	12,966	16.7
CHILDS2	0	0.0	0	0.0	36	16.2	2,994	26.9
CHRISHUSKY	2	75.8	47	75.2	45	15.8	8,398	19.5
CNDALRCL600	85	36.4	40,014	38.3	34	86.7	12,946	98.9
COMWTH185	0	0.0	0	0.0	24	20.9	983	29.8
CONAERLA4	81	6.1	1,715	23.1	313	4.5	20,530	19.8
CURTISTRVAIR	0	0.0	0	0.0	14	19.0	1,366	32.6
CVACBT/L13	2	91.3	47	94.1	29	25.5	1,584	29.4
DHAVDH82	0	0.0	0	0.0	31	21.8	1,006	26.7
DHAVDHC2	26	1.9	88	90.0	142	0.4	40,043	12.9
DHAVDHC6	3	59.3	143	55.7	6	64.7	5,595	62.0

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
DOUGDC3	21	89.0	5,597	95.3	58	62.3	6,994	*
EAGLEBAL	0	0.0	0	0.0	17	16.2	3,499	17.7
EMB110	1	*	322	*	2	89.5	654	98.4
ENSTRMF28-12	0	0.0	202	*	71	18.0	12,165	40.2
ENSTRMF28-13	4	10.4	532	50.1	78	3.7	12,809	39.3
FRCHLD24	0	0.0	0	0.0	42	1.2	1,849	23.1
FRCHLDW62	6	62.9	72	61.0	40	16.9	2,252	28.5
GRUMAVAA1	3	50.5	145	43.3	211	17.6	15,431	22.4
GRUMAVAA5	313	13.3	15,860	28.7	772	6.9	69,159	20.0
GRUMAVG164	0	0.0	0	0.0	188	18.3	87,719	21.0
GRUMAVG21	3	70.0	24	71.0	14	40.2	1,712	58.2
GULSTM112	182	17.7	11,478	25.4	398	9.9	33,730	25.1
GULSTM500	80	29.0	9,983	32.6	125	29.0	20,880	49.4
GULSTM560	18	67.2	1,007	74.3	23	81.2	1,809	*
GULSTM680	50	46.2	2,609	71.8	61	53.2	10,321	72.9
GULSTM680TP	11	82.5	2,031	90.6	22	66.5	1,339	77.9
GULSTM690TP	130	31.6	23,230	33.5	138	43.9	15,568	70.7
GULSTMAA1	19	47.3	346	53.9	260	11.7	20,116	14.9

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
GULSTMAA5	289	26.2	12,733	34.8	697	11.7	52,918	21.1
GULSTMG1159	141	38.3	76,894	40.3	38	*	18,471	*
GULSTMG159	10	38.8	4,254	38.6	4	74.7	1,314	94.7
GULSTMG44	15	12.2	608	34.7	35	5.9	3,342	22.8
GULSTMGA7	21	22.4	1,182	49.9	26	18.8	2,034	34.9
HELIOH295	2	72.3	294	79.7	36	6.1	3,398	37.0
HILLERUH12	0	0.0	0	0.0	76	17.0	17,002	20.3
HUGHES269	0	0.0	0	0.0	203	21.2	71,483	23.8
HUGHES369-12	0	0.0	0	0.0	38	21.5	22,507	24.2
HUGHES369-13	0	0.0	0	0.0	475	0.1	193,396	19.4
HWKSLYDH125	181	25.8	62,736	28.0	88	64.7	16,981	82.4
HYNESB2	0	0.0	0	0.0	13	23.8	623	27.9
INTRCP200	12	3.9	405	20.6	25	10.5	1,549	33.9
ISRAEL1121	4	80.4	474	82.4	6	95.9	265	*
ISRAEL1124	77	35.7	33,727	37.3	39	86.4	10,247	98.7
JBMSTRDGA15	3	13.9	121	12.0	18	8.6	1,634	54.7
LEAR24	42	53.6	17,389	57.7	18	*	10,283	*
LEAR25	46	48.6	20,752	51.0	17	*	2,844	*

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
LEAR35	148	37.2	62,506	38.1	82	68.9	26,178	94.4
LEAR55	32	50.3	13,211	50.6	15	*	3,245	*
LKHEED1329	4	57.1	1,214	56.5	5	67.4	660	80.6
LUSCOM8	0	0.0	0	0.0	658	11.6	43,883	16.2
MAULEM4	15	38.1	368	75.8	112	6.2	9,464	20.2
MAULEM5	36	41.9	1,585	50.5	307	5.7	33,646	33.4
MAULEM6	8	42.3	120	52.5	62	6.4	6,096	71.4
MAULEM7	18	18.9	398	23.1	81	4.9	9,073	15.0
MCLISHFUNKB	0	0.0	0	0.0	43	18.0	1,570	21.9
MILITARY204	0	0.0	0	0.0	51	1.0	10,187	13.1
MNCOUP90	0	0.0	0	0.0	3	50.0	68	73.8
MNMITM18	0	0.0	0	0.0	25	33.9	1,120	43.1
MOONEYM20	3,090	7.3	171,333	16.5	5,756	4.6	539,603	14.6
MTSBSIMU2	65	40.3	14,263	43.0	70	55.4	5,940	*
MTSBSIMU300	26	35.8	7,914	37.5	9	*	1,586	*
NAMERT28	8	45.1	250	56.5	69	17.5	3,558	21.5
NAMERT6	2	67.5	9	64.4	83	20.5	4,416	25.7
NAVIONNAVION	113	0.4	2,509	23.4	657	2.5	37,978	14.2

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
NORWST65	0	0.0	0	0.0	31	29.7	3,131	38.4
PIPER600	179	22.9	13,446	27.3	239	17.7	22,958	36.7
PIPER602	139	26.8	15,527	31.5	160	23.9	11,825	46.4
PIPERJ3	1	70.5	16	62.2	2,185	7.6	130,441	12.0
PIPERJ4	0	0.0	0	0.0	33	16.2	1,772	25.1
PIPERJ5	2	98.2	13	*	87	18.6	4,759	25.5
PIPERPA14	0	0.0	0	0.0	43	1.1	2,588	63.0
PIPERPA15	0	0.0	0	0.0	50	19.8	1,974	21.8
PIPERPA16	0	0.0	0	0.0	73	0.7	4,560	16.6
PIPERPA17	0	0.0	0	0.0	40	20.2	2,234	32.7
PIPERPA18	0	0.0	0	0.0	1,650	10.0	186,208	23.9
PIPERPA20	0	0.0	0	0.0	184	0.3	9,049	35.2
PIPERPA22-1	32	76.8	182	79.0	309	15.7	28,744	22.4
PIPERPA22-2	71	53.6	1,978	54.9	2,119	1.9	132,969	13.0
PIPERPA23	888	19.4	48,921	25.3	1,676	10.4	161,656	18.4
PIPERPA24	1,186	9.1	45,838	23.0	2,349	5.5	166,946	14.3
PIPERPA25	0	0.0	0	0.0	398	14.3	62,558	18.2
PIPERPA28-1	591	23.3	23,656	30.2	3,617	8.5	342,826	13.1

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
PIPERPA28-2	6,479	4.7	383,279	8.9	14,120	2.7	1,816,371	7.5
PIPERPA30	640	14.6	39,667	18.9	943	10.2	79,202	21.6
PIPERPA31-3	36	35.2	3,180	48.9	63	20.5	2,714	81.6
PIPERPA31-4	370	28.1	90,523	30.1	436	36.5	55,908	58.2
PIPERPA31T	170	28.0	50,879	30.4	148	45.9	17,201	78.0
PIPERPA32	1,954	7.5	121,514	14.3	3,220	6.0	415,287	17.4
PIPERPA34	685	24.2	79,533	27.1	1,023	25.6	111,145	31.7
PIPERPA36	0	0.0	0	0.0	106	19.7	24,613	24.9
PIPERPA38	75	54.9	3,652	63.6	538	12.2	184,789	17.8
PIPERPA42	25	29.8	7,013	31.1	16	59.5	1,183	*
PIPERPA44	121	35.2	13,606	38.2	204	21.4	60,495	21.2
PIPERPA46	268	10.3	38,037	15.2	316	12.4	24,361	47.9
RKVLLNA265	123	29.2	25,133	30.8	67	62.8	10,443	73.1
ROBSINR22	0	0.0	0	0.0	255	9.0	106,096	12.6
SCHWZERG164	0	0.0	0	0.0	311	22.3	103,464	24.1
SKRSKYS58	0	0.0	0	0.0	5	55.8	432	55.4
SKRSKYS76	24	86.6	826	*	58	41.2	20,785	24.8
SLINDS100	2	20.2	9	6.0	130	0.4	6,403	13.5

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMPUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
SNIAS350	26	1.9	3,025	25.0	158	0.3	108,763	21.5
SOCATATB10	18	12.8	1,142	36.2	27	15.6	2,903	29.6
SOCATATB20	74	45.0	6,509	47.0	123	30.0	10,318	54.0
STNSON10	0	0.0	0	0.0	12	24.3	547	37.2
STNSONL5	0	0.0	0	0.0	24	19.2	1,602	31.2
STNSONV77	0	0.0	0	0.0	23	17.9	823	20.8
STOLAMRC3	0	0.0	0	0.0	75	0.7	3,575	21.9
SWRNGNA226-7	27	28.3	8,479	28.9	22	44.5	3,362	69.4
SWRNGNA226-8	4	85.5	1,521	86.9	6	*	999	*
SWRNGNSA227	14	73.7	3,520	74.8	11	96.3	7,139	*
SWRNGNSA26	10	51.6	2,017	58.2	8	76.9	707	*
TCRAFKD	1	*	9	*	65	12.7	3,322	15.2
TCRAFT19	0	0.0	0	0.0	53	13.2	4,786	16.8
TCRAFTBC	0	0.0	0	0.0	609	12.5	39,591	15.3
TCRAFTBL	0	0.0	0	0.0	53	16.9	2,072	23.1
TH55	0	0.0	0	0.0	20	20.8	4,619	30.9
UNIVACGC1	13	45.6	109	51.9	141	14.9	8,187	17.4
UNIVAR108	9	*	579	*	757	1.6	38,603	14.4

4.8 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IMC CONDITIONS
AND VMC CONDITIONS BY MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	IMC				VMC			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
UNIVAR415	0	0.0	0	0.0	968	11.2	43,113	18.1
VARGA2150	7	49.1	152	49.8	66	19.2	4,350	27.5
WACO-1	0	0.0	0	0.0	89	19.0	4,469	31.7
WACO-2	3	12.6	54	46.4	55	0.9	1,629	37.3
WTHRLY201	0	0.0	0	0.0	23	18.0	5,623	21.3
TOTALS	51,823	1.8	4,217,449	3.2	161,755	0.8	20,122,431	2.5

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.
NUMBER IN PARENTHESES FOLLOWING GROUP NAME INDICATES THE AIRCRAFT TYPE TO WHICH THESE AIRCRAFT BELONG. SEE
THE FOLLOWING PAGE FOR A DESCRIPTION OF THESE AIRCRAFT TYPES. FOR ADDITIONAL INFORMATION, SEE APPENDIX B FOR
AIRCRAFT GROUP NAMES AND FAA MANUFACTURER/MODEL CODES.

AIRCRAFT DEFINITIONS AND TYPES USED FOR THE GENERAL AVIATION SURVEY

AIRCRAFT TYPE DEFINITION	AIRCRAFT TYPE
FIXED-WING PISTON: 1 ENGINE - 1-3 SEATS	(1)
FIXED-WING PISTON: 1 ENGINE 4 + SEATS	(2)
FIXED-WING PISTON: 2 ENGINE - 1-6 SEATS	(3)
FIXED-WING PISTON: 2 ENGINE - 7 + SEATS	(4)
FIXED-WING PISTON: OTHER	(5)
FIXED WING-TURBOPROP: 1 ENGINE	(6)
FIXED WING-TURBOPROP: 2 ENGINE - 1-12 SEATS	(7)
FIXED WING-TURBOPROP: 2 ENGINE - 13 + SEATS	(8)
FIXED WING-TURBOPROP: OTHER	(9)
FIXED WING - TURBOJET: 2 ENG	(10)
FIXED WING - TURBOJET: OTHER	(11)
ROTORCRAFT: PISTON	(12)
ROTORCRAFT: 1 ENGINE - TURBINE	(13)
ROTORCRAFT: MULTI-ENGINE - TURBINE	(14)
OTHER AIRCRAFT: GLIDERS	(15)
OTHER AIRCRAFT: LIGHTER-THAN-AIR	(16)
OTHER AIRCRAFT: EXPERIMENTAL - HOME BUILT	(17)
OTHER AIRCRAFT: EXPERIMENTAL - EXHIBITION	(18)
OTHER AIRCRAFT: EXPERIMENTAL - OTHER	(19)

4.9 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN BY FLIGHT PLAN
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	IFR FLIGHT PLANS				VFR/DVFR FLIGHT PLANS			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING								
FIXED WING - PISTON								
1 ENG: 1-3 SEATS	614	23.6	66,844	7.1	11,300	4.6	1,618,724	5.0
1 ENG: 4+ SEATS	13,688	4.7	2,196,717	2.0	28,661	3.0	3,914,941	2.8
1 ENGINE: TOTAL	14,303	4.7	2,263,563	2.0	39,961	2.5	5,533,664	2.4
2 ENG: 1-6 SEATS	4,333	6.3	674,157	5.1	2,584	9.3	328,610	6.6
2 ENG: 7+ SEATS	2,883	7.1	438,755	7.5	904	16.7	112,266	9.9
2 ENGINE: TOTAL	7,215	4.7	1,112,913	4.3	3,487	8.2	440,877	5.5
PISTON: OTHER	5	66.7	168	55.2	8	47.9	288	52.0
PISTON: TOTAL	21,523	3.5	3,376,643	1.9	43,457	2.4	5,974,830	2.3
FIXED WING - TURBOPROP								
1 ENG: TOTAL	183	34.5	57,782	54.6	50	60.0	10,091	83.3
2 ENG: 1-12 SEATS	2,759	3.6	538,600	7.2	161	32.8	27,665	11.7
2 ENG: 13+ SEATS	288	4.1	41,337	17.2	27	32.7	6,406	71.2
2 ENGINE: TOTAL	3,047	3.3	579,937	6.8	188	28.5	34,071	16.4
TURBOPROP: OTHER	3	109.2	122	44.6	1	176.6	16	129.7
TURBOPROP: TOTAL	3,234	3.6	637,841	7.9	239	25.7	44,178	22.8

4.9 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN BY FLIGHT PLAN
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	IFR FLIGHT PLANS				VFR/DVFR FLIGHT PLANS			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING - TURBOJET								
2 ENGINE: TOTAL	3,430	1.9	791,716	5.8	106	41.1	17,590	22.1
TURBOJET: OTHER	165	2.7	26,057	11.2	9	40.8	147	24.3
TURBOJET: TOTAL	3,595	1.8	817,774	5.6	114	38.1	17,737	21.9
FIXED WING: TOTAL	28,352	2.7	4,832,258	1.9	43,811	2.4	6,036,747	2.3
ROTORCRAFT								
PISTON: TOTAL	11	82.3	1,401	82.2	416	13.8	69,275	16.7
1ENG: TURBINE	32	76.4	7,649	50.0	781	13.8	425,032	16.9
MULTI ENG: TURBINE	25	62.1	6,156	12.7	312	14.6	77,175	31.3
TURBINE TOTAL:	57	50.7	13,805	28.3	1,093	10.7	502,208	15.1
ROTORCRAFT: TOTAL	68	44.7	15,207	26.8	1,509	8.6	571,483	13.4
OTHER AIRCRAFT								
GLIDERS:	5	185.6	3,568	11.2	181	29.5	25,178	25.3
LIGHTER-THAN-AIR	47	86.4	4,969	44.3	1,532	11.5	50,955	14.6
EXPERIMENTAL								
EXP-HOME BUILT	52	97.8	2,577	49.4	1,660	15.1	69,008	18.6
EXP-EXHIBITION	17	116.2	2,550	31.2	492	18.2	34,507	15.0
EXP-OTHER	323	26.9	66,271	21.1	700	16.5	105,943	24.8
TOTAL ALL AIRCRAFT	28,863	2.7	4,927,401	1.9	49,884	2.2	6,893,825	2.3

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

4.9 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN BY FLIGHT PLAN
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	NO FLIGHT PLANS				OTHER/UNKNOWN FLIGHT PLANS				TOTAL FLIGHT PLANS			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING												
FIXED WING - PISTON												
1 ENG: 1-3 SEATS	26,659	2.1	2,791,428	3.9	2,643	10.9	484,878	12.8	41,079	2.0	4,962,109	3.5
1 ENG: 4+ SEATS	40,926	2.2	4,925,991	3.2	6,161	7.7	1,528,639	7.1	89,437	1.7	12,566,329	2.6
1 ENGINE: TOTAL	67,585	1.6	7,717,422	2.5	8,804	6.3	2,013,518	6.2	130,516	1.3	17,528,433	2.1
2 ENG: 1-6 SEATS	3,173	8.0	386,987	5.6	832	18.7	124,042	16.9	10,922	4.3	1,513,509	4.5
2 ENG: 7+ SEATS	1,252	13.1	146,376	10.2	427	27.7	75,176	28.6	5,466	6.0	772,480	6.4
2 ENGINE: TOTAL	4,426	6.8	533,364	4.9	1,260	15.5	199,218	15.1	16,388	3.5	2,285,990	3.7
PISTON: OTHER	5	70.9	237	74.1	0	0.0	0	0.0	18	34.3	692	20.9
PISTON: TOTAL	72,015	1.5	8,251,025	2.3	10,064	5.9	2,212,736	5.8	146,922	1.2	19,815,113	1.9
FIXED WING - TURBOPROP												
1 ENG: TOTAL	243	16.8	63,864	25.2	227	30.5	43,671	52.8	703	15.1	175,413	12.0
2 ENG: 1-12 SEATS	251	30.2	32,500	11.4	94	53.7	38,030	42.0	3,266	4.4	636,749	7.2
2 ENG: 13+ SEATS	11	57.9	1,165	97.9	40	25.4	14,188	30.3	366	5.1	63,070	13.4
2 ENGINE: TOTAL	263	29.0	33,665	11.5	133	38.5	52,218	31.7	3,632	4.0	699,819	6.7
TURBOPROP: OTHER	4	85.6	213	158.9	16	30.3	907	75.1	24	29.9	1,254	32.6
TURBOPROP: TOTAL	510	16.9	97,743	16.9	376	22.9	96,796	29.3	4,359	4.1	876,487	5.8

4.9 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN BY FLIGHT PLAN
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	NO FLIGHT PLANS				OTHER/UNKNOWN FLIGHT PLANS				TOTAL FLIGHT PLANS			
	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR	NUMBER ACTIVE AIRCRAFT	PERCENT STANDARD ERROR	HOURS FLOWN	PERCENT STANDARD ERROR
FIXED WING - TURBOJET												
2 ENGINE: TOTAL	13	129.6	2,315	9.0	124	38.2	35,965	51.4	3,673	2.5	847,641	5.0
TURBOJET: OTHER	11	37.2	139	31.1	2	89.0	17	104.3	186	3.8	26,356	11.1
TURBOJET: TOTAL	24	74.6	2,454	8.7	125	37.7	35,982	51.4	3,859	2.4	873,998	4.8
FIXED WING: TOTAL	72,549	1.5	8,351,224	2.3	10,565	5.7	2,345,515	5.7	155,141	1.2	21,565,600	1.8
ROTORCRAFT												
PISTON: TOTAL	1,095	5.6	221,121	11.1	125	25.0	26,555	32.7	1,644	5.4	318,363	7.7
1 ENG: TURBINE	985	11.2	426,781	19.8	347	24.1	146,077	29.5	2,144	8.2	1,005,649	8.5
MULTI ENG: TURBINE	174	22.1	55,080	35.1	208	17.2	88,789	44.9	720	9.9	227,182	17.0
TURBINE TOTAL:	1,159	10.0	481,861	18.0	555	16.4	234,866	25.0	2,864	6.6	1,232,832	7.6
ROTORCRAFT: TOTAL	2,254	5.8	702,984	12.8	680	14.1	261,422	22.7	4,508	4.7	1,551,195	6.2
OTHER AIRCRAFT												
GLIDERS:	1,313	5.2	186,729	12.2	147	33.1	14,220	29.4	1,645	6.1	229,698	11.2
LIGHTER-THAN-AIR	1,925	9.3	182,234	36.9	98	59.5	2,568	64.7	3,602	7.2	240,753	27.1
EXPERIMENTAL												
EXP-HOME BUILT	4,945	5.3	190,812	10.6	197	49.7	6,264	60.5	6,854	5.5	268,678	7.6
EXP-EXHIBITION	972	9.8	78,544	10.9	141	39.0	35,183	35.7	1,622	8.8	150,784	9.9
EXP-OTHER	1,269	10.1	142,061	17.7	169	38.5	18,887	48.3	2,462	8.3	333,161	14.3
TOTAL ALL AIRCRAFT	85,227	1.4	9,834,588	2.3	11,997	5.2	2,684,063	5.5	175,833	1.1	24,339,880	1.7

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

CHAPTER V
FUEL CONSUMPTION

5.1 1993 GENERAL AVIATION AVERAGE FUEL CONSUMPTION RATE AND TOTAL FUEL CONSUMED
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

AIRCRAFT TYPE	AVERAGE RATE GPH	ESTIMATED FUEL USE (mil gal)	PERCENT STANDARD ERROR
FIXED WING			
FIXED WING - PISTON			
1 ENG: 1-3 SEATS	9.4	44.7	4.1
1 ENG: 4+ SEATS	11.4	134.0	2.9
1 ENGINE: TOTAL	10.8	178.7	2.4
2 ENG: 1-6 SEATS	26.6	43.1	5.0
2 ENG: 7+ SEATS	35.1	31.4	6.2
2 ENGINE: TOTAL	29.5	74.5	3.9
PISTON: OTHER	238.7	0.2	42.8
PISTON: TOTAL	13.0	253.4	2.1
FIXED WING - TURBOPROP			
1 ENGINE: TOTAL	54.4	13.3	11.3
2 ENG: 1-12 SEATS	84.8	71.6	6.7
2 ENG: 13+ SEATS	110.4	14.9	20.6
2 ENGINE: TOTAL	87.1	86.5	6.6
TURBOPROP: OTHER	54.4	0.2	42.6
TURBOPROP: TOTAL	80.5	99.9	5.9
FIXED WING - TURBOJET			
2 ENGINE: TOTAL	263.2	296.4	4.8
TURBOJET: OTHER	362.1	14.2	15.5
TURBOJET: TOTAL	266.2	310.6	4.7

5.1 1993 GENERAL AVIATION AVERAGE FUEL CONSUMPTION RATE AND TOTAL FUEL CONSUMED
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

AIRCRAFT TYPE	AVERAGE RATE GPH	ESTIMATED FUEL USE (mil gal)	PERCENT STANDARD ERROR
FIXED WING: TOTAL	26.0	664.0	2.5
ROTORCRAFT			
PISTON: TOTAL	15.1	5.6	8.7
1 ENG: TURBINE	26.0	27.9	9.5
MULTI-ENGL TURBINE	40.2	15.7	10.8
TURBINE: TOTAL	28.6	43.5	7.2
ROTORCRAFT: TOTAL	25.8	49.1	6.5
OTHER AIRCRAFT			
GLIDERS:	0.0	0.0	0.0
LIGHTER-THAN-AIR:	0.0	0.0	0.0
EXPERIMENTAL:			
HOME BUILT:	13.2	3.9	9.0
EXHIBITION:	13.2	1.2	18.2
OTHER:	13.2	4.3	15.0
TOTAL ALL AIRCRAFT	25.1	722.5	2.3
TOTAL: JET FUEL	113.5	454.1	3.4
TOTAL: AVIATION GASOLINE	12.7	268.4	2.4

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED
TOTALS DUE TO ESTIMATION PROCEDURES.

CHAPTER VI
AIRFRAME HOURS AND ENGINE ACTIVITY

6.1 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

AIRCRAFT TYPE	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
FIXED WING									
FIXED WING - PISTON									
1 ENG: 1-3 SEATS	68,813	41,250	1.8	59.9	1.1	128,505,360	2.5	3,126.2	1.6
1 ENG: 4+ SEATS	109,606	89,436	0.9	81.6	0.7	281,907,104	1.6	3,164.8	1.3
1 ENGINE: TOTAL	178,419	130,687	0.8	73.2	0.6	410,412,576	1.3	3,153.2	1.0
2 ENG: 1-6 SEATS	15,187	10,922	2.9	71.9	2.1	39,748,700	4.3	3,648.2	3.2
2 ENG: 7+ SEATS	6,581	5,465	2.3	83.0	1.9	21,585,844	5.6	3,790.8	4.8
2 ENGINE: TOTAL	21,768	16,388	2.1	75.3	1.6	61,334,560	3.4	3,693.8	2.6
PISTON: OTHER	95	18	38.9	18.9	7.4	144,334	47.4	7,833.6	24.1
PISTON: TOTAL	200,282	147,093	0.8	73.4	0.6	471,891,424	1.2	3,207.6	1.0
FIXED WING - TURBOPROP									
1 ENGINE: TOTAL	807	703	6.7	87.1	5.8	1,553,807	11.5	2,088.1	9.0
2 ENG: 1-12 SEATS	4,086	3,265	3.8	79.9	3.0	13,030,507	6.2	4,001.3	5.2
2 ENG: 13+ SEATS	868	365	15.6	42.1	6.6	2,086,051	17.7	6,099.6	6.2
2 ENGINE: TOTAL	4,954	3,631	3.8	73.3	2.8	15,116,559	5.9	4,154.8	4.7
TURBOPROP: OTHER	71	24	37.5	33.8	12.7	264,930	41.2	10,928.7	4.2
TURBOPROP: TOTAL	5,832	4,359	3.3	74.7	2.5	16,935,296	5.4	3,816.2	4.3
FIXED WING - TURBOJET									
2 ENGINE: TOTAL	4,272	3,672	2.9	86.0	2.5	14,920,263	5.3	4,093.4	4.3

6.1 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

AIRCRAFT TYPE	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
TURBOJET: OTHER	434	186	11.8	42.9	5.1	627,508	14.7	3,088.0	11.3
TURBOJET: TOTAL	4,706	3,859	2.8	82.0	2.3	15,547,770	5.1	4,049.5	4.2
FIXED WING: TOTAL	210,820	155,312	0.7	73.7	0.5	504,374,464	1.2	3,234.2	0.9
ROTORCRAFT									
PISTON: TOTAL	4,274	1,645	6.3	38.5	2.4	5,174,793	10.9	3,172.8	6.3
1 ENG: TURBINE	3,040	2,144	5.0	70.5	3.6	14,499,893	10.5	6,894.9	9.4
MULTI-ENG: TURBINE	906	719	5.3	79.4	4.2	3,257,717	9.4	4,545.0	8.5
TURBINE: TOTAL	3,946	2,864	4.0	72.6	2.9	17,757,610	8.7	6,461.4	8.2
ROTORCRAFT: TOTAL	8,220	4,509	3.4	54.9	1.9	22,932,404	7.2	5,289.7	6.6
OTHER AIRCRAFT									
GLIDERS:	2,760	1,645	6.8	59.6	4.1	2,247,791	17.3	1,366.3	15.9
LIGHTER-THAN-AIR:	5,497	3,601	5.7	65.5	3.7	1,848,737	43.3	513.3	42.9
EXPERIMENTAL:									
HOME BUILT:	12,683	6,853	5.9	54.0	3.2	3,616,614	14.7	527.7	13.5
EXHIBITION:	2,617	1,621	7.3	61.9	4.5	2,480,168	14.7	1,529.3	12.7
OTHER:	3,374	2,461	5.0	72.9	3.6	6,343,896	12.3	2,576.9	11.3
TOTAL	245,971	176,006	0.7	71.6	0.5	543,844,096	1.2	3,058.6	0.9

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
1ENG PIST (1)	10,115	4,622	6.8	45.7	3.1	11,761,836	11.0	2,544.5	8.6
1ENG PIST (2)	893	399	12.0	44.8	5.4	688,049	21.9	1,720.5	18.3
2ENG PIST (3)	469	211	10.7	45.2	4.8	955,309	15.2	4,507.8	10.8
2ENG PIST (4)	1,320	1,077	6.5	81.7	5.3	4,365,721	14.3	4,050.0	12.8
PIST OTHR (5)	95	18	40.7	19.4	7.9	144,334	47.4	7,833.6	24.1
1ENG TURB (6)	136	102	15.1	75.7	11.4	136,017	47.6	1,321.8	45.1
2ENG TURB (7)	191	125	12.3	65.5	8.1	403,819	19.0	3,226.6	14.6
2ENG TURB (8)	135	36	23.0	27.2	6.3	360,436	25.0	9,816.9	9.7
TURB OTHR (9)	71	24	41.0	34.1	14.0	264,930	41.2	10,928.7	4.2
2ENG TJET (10)	203	129	16.8	64.0	10.7	1,100,734	22.2	8,476.8	14.5
TJET OTHR (11)	189	30	17.8	16.3	2.9	145,822	32.1	4,729.5	26.7
PIST HEL (12)	1,007	126	27.2	12.6	3.4	177,669	35.6	1,401.5	23.0
1ENG TUR HEL (13)	231	87	19.0	37.9	7.2	298,408	27.7	3,412.9	20.1
MULTI-ENG HEL(14)	113	59	10.9	52.9	5.8	387,369	34.8	6,480.5	33.0
GLIDERS (15)	2,760	1,645	6.9	59.6	4.1	2,247,791	17.3	1,366.3	15.8
LIGHTER-THAN-AIR (16)	5,497	3,601	5.7	65.5	3.8	1,848,737	43.2	513.3	42.9
EXP-HOME BLT (17)	12,683	6,853	5.9	54.0	3.2	3,616,615	14.7	527.7	13.5
EXP-EXHIBIT (18)	2,617	1,621	7.4	62.0	4.6	2,480,168	14.7	1,529.3	12.7

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
EXP-OTHER (19)	3,374	2,461	5.0	73.0	3.6	6,343,896	12.3	2,576.9	11.2
AEROSPAS355	98	58	28.9	59.6	17.2	285,416	34.5	4,883.6	18.9
AEROSPSA316	83	0	0.0	0.0	0.0	0	0.0	0.0	0.0
AGUSTAA109	71	62	9.6	87.4	8.4	110,581	16.1	1,781.4	12.8
AIRPTSA	184	79	17.1	43.2	7.4	161,210	21.6	2,027.1	13.3
AIRTRCAT300	411	357	9.0	87.1	7.8	1,326,269	10.8	3,705.2	6.0
AIRTRCAT400	248	206	10.9	83.2	9.1	250,899	21.0	1,216.3	18.0
AIRTRCAT500	146	134	13.1	91.8	12.0	129,125	35.1	963.4	32.6
AMDFALC10	109	103	5.2	95.0	4.9	521,933	9.5	5,042.2	7.9
AMDFALC20	176	162	7.0	92.2	6.5	1,155,377	17.1	7,122.7	15.6
AMDFALC50	174	115	16.5	66.6	11.0	268,692	22.1	2,318.3	14.7
AMRGENAG5B	119	110	6.9	92.9	6.5	62,605	18.5	566.1	17.2
ARCTICS1A	77	20	22.5	26.3	5.9	68,315	27.6	3,372.6	15.9
ARONCA15	189	151	14.1	80.0	11.3	400,781	16.7	2,652.2	8.9
ARONCA65	584	271	17.3	46.6	8.0	583,369	21.2	2,145.3	12.3
ARONCAC3	91	13	39.0	14.5	5.6	21,788	39.9	1,652.5	8.5
AYRESS2 (1)	661	535	10.7	81.0	8.7	3,169,116	16.6	5,920.6	12.7
AYRESS2 (6)	122	110	12.9	90.5	11.6	619,249	16.4	5,610.9	10.1

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 14

MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
BAGJETSM	22	12	72.8	54.6	39.7	29,774	72.8	2,480.0	0.0
BBAVIA11	765	293	16.6	38.3	6.4	558,298	19.2	1,904.9	9.7
BBAVIA8	213	163	8.3	77.0	6.4	336,731	14.7	2,053.6	12.1
BEECH100	187	171	7.8	91.8	7.2	793,317	14.0	4,621.1	11.6
BEECH17	186	59	30.6	32.1	9.8	228,614	34.8	3,827.6	16.5
BEECH18	461	163	28.9	35.4	10.2	1,349,801	32.9	8,259.8	15.8
BEECH1900	124	67	58.3	54.6	31.8	397,467	61.8	5,873.6	20.5
BEECH1900D	63	17	*	27.3	31.0	12,170	*	708.0	*
BEECH200	744	656	7.5	88.2	6.6	2,713,636	14.0	4,135.1	11.8
BEECH23	2,439	2,036	5.4	83.5	4.5	5,984,444	11.4	2,938.1	10.0
BEECH300	234	121	22.1	52.1	11.5	189,368	25.5	1,554.7	12.8
BEECH33	2,069	1,815	4.0	87.7	3.5	5,573,250	8.4	3,070.2	7.4
BEECH35 (2)	6,257	5,198	3.8	83.1	3.1	21,399,714	5.1	4,116.7	3.4
BEECH35 (6)	92	70	20.5	76.4	15.7	22,430	60.7	318.9	57.1
BEECH36	2,393	2,150	4.1	89.9	3.7	5,512,479	10.6	2,563.7	9.8
BEECH45	341	163	21.9	48.1	10.6	696,684	24.9	4,248.2	11.7
BEECH50	227	87	25.5	38.7	9.9	601,470	28.3	6,855.3	12.2
BEECH55	2,044	1,508	8.6	73.8	6.3	4,707,474	11.2	3,120.2	7.2

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 4 OF 14

MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
BEECH56	50	33	18.5	67.0	12.4	91,259	21.8	2,724.6	11.6
BEECH58	1,487	1,140	7.9	76.7	6.0	3,374,956	11.4	2,959.9	8.3
BEECH60	368	315	12.1	85.6	10.4	887,033	18.6	2,814.6	14.1
BEECH65	100	20	*	20.1	22.3	72,812	*	3,617.1	25.0
BEECH76	255	209	7.1	82.3	5.8	645,560	10.6	3,077.3	7.8
BEECH77	207	155	14.1	74.9	10.5	400,468	27.3	2,583.0	23.4
BEECH80	108	76	19.5	70.4	13.8	470,055	23.6	6,183.8	13.3
BEECH90	1,074	887	8.8	82.6	7.2	3,885,443	14.4	4,378.5	11.5
BEECH95	409	294	9.2	72.0	6.6	1,254,104	11.3	4,257.1	6.6
BEECH99	50	26	31.7	53.1	16.8	282,637	33.9	10,639.6	12.0
BELL204	149	110	16.1	74.2	12.0	1,078,511	20.8	9,759.7	13.2
BELL206	1,464	1,128	7.8	77.1	6.0	8,585,918	15.9	7,607.9	13.8
BELL212	91	81	8.9	89.8	8.0	708,096	20.7	8,662.4	18.7
BELL222	74	63	10.3	85.8	8.8	212,451	20.8	3,346.8	18.1
BELL412	86	75	9.3	87.5	8.1	368,351	19.2	4,895.1	16.8
BELL47	1,087	375	17.0	34.5	5.9	2,371,601	19.1	6,316.7	8.7
BLANCA11	79	45	12.9	57.7	7.4	73,490	15.3	1,612.0	8.2
BLANCA1413	214	82	23.8	38.5	9.2	206,092	25.1	2,501.9	8.0

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
BLANCA1419	234	126	15.1	54.1	8.2	322,379	16.3	2,544.7	6.3
BLANCA17	928	780	7.7	84.1	6.4	1,420,547	10.3	1,820.9	6.9
BLANCA7 (1)	1,264	1,005	4.8	79.5	3.8	1,787,353	12.1	1,777.9	11.1
BLANCA7 (2)	26	7	80.6	27.6	22.2	8,886	82.3	1,239.3	16.5
BLANCA8	421	286	15.7	68.0	10.7	328,711	19.6	1,148.1	11.8
BLANKA/BBAV1	1,578	1,071	8.4	67.9	5.7	2,148,043	11.3	2,004.1	7.5
BNORMBN2	45	43	7.4	96.4	7.1	255,386	30.4	5,884.3	29.4
BOEING75	1,810	685	11.4	37.9	4.3	2,690,201	13.8	3,922.3	7.8
BOLKNS105	133	119	13.9	89.6	12.4	698,418	18.6	5,863.0	12.4
BOLKNS117	129	113	14.7	87.7	12.9	239,667	28.6	2,119.0	24.5
BRAEROOH125	138	131	5.6	95.0	5.3	268,791	11.4	2,051.0	9.9
CESSNA120	785	485	11.7	61.9	7.2	1,452,333	13.6	2,991.2	6.9
CESSNA140	2,156	1,219	11.8	56.6	6.7	2,982,840	14.2	2,445.3	8.0
CESSNA150	16,518	11,789	3.5	71.4	2.5	45,931,068	4.5	3,895.9	2.9
CESSNA170	2,306	1,612	8.3	69.9	5.8	5,398,116	9.0	3,348.5	3.7
CESSNA172	22,386	19,046	2.0	85.1	1.7	67,591,504	3.7	3,548.8	3.1
CESSNA175	1,194	900	9.0	75.4	6.8	2,366,285	11.1	2,628.4	6.5
CESSNA177	2,550	2,054	5.8	80.6	4.7	6,110,443	9.4	2,973.9	7.4

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
CESSNA180	2,581	1,949	6.1	75.5	4.6	6,500,303	8.0	3,333.7	5.2
CESSNA182	12,762	11,081	2.3	86.8	2.0	33,838,832	6.1	3,053.6	5.6
CESSNA185	1,499	1,133	6.6	75.6	5.0	3,505,623	11.0	3,092.8	8.8
CESSNA188	1,326	842	11.0	63.5	7.0	2,769,697	12.9	3,288.7	6.7
CESSNA190	74	28	29.3	38.6	11.3	94,751	30.9	3,313.4	10.1
CESSNA195	465	277	14.0	59.7	8.4	1,159,457	19.1	4,174.5	13.1
CESSNA205	219	183	6.7	83.9	5.6	691,582	9.1	3,764.4	6.1
CESSNA206	2,279	1,681	8.2	73.8	6.1	4,445,657	11.5	2,643.5	8.0
CESSNA207	148	104	31.6	70.3	22.2	662,675	45.8	6,365.3	33.2
CESSNA208	311	285	12.7	91.8	11.7	646,984	19.0	2,266.1	14.1
CESSNA210	5,180	4,436	3.8	85.6	3.2	11,713,236	5.3	2,640.3	3.7
CESSNA303	101	82	12.9	81.5	10.5	187,908	21.0	2,281.7	16.5
CESSNA305	278	138	16.4	49.9	8.2	869,934	18.4	6,274.7	8.2
CESSNA310	2,689	2,098	7.0	78.0	5.5	9,144,535	12.4	4,358.0	10.2
CESSNA320	223	121	18.1	54.3	9.8	532,392	19.0	4,396.8	5.6
CESSNA336	60	26	20.5	44.8	9.2	76,692	21.6	2,850.5	6.6
CESSNA337	856	574	13.3	67.1	8.9	1,402,522	15.8	2,442.0	8.6
CESSNA340	824	679	9.9	82.5	8.2	1,881,625	16.7	2,769.2	13.4

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
CESSNA401	153	129	10.8	84.8	9.2	495,443	16.8	3,816.5	12.8
CESSNA402	422	254	21.5	60.3	12.9	1,736,522	25.3	6,826.2	13.4
CESSNA421	974	970	1.2	99.7	1.2	2,720,726	7.5	2,802.4	7.4
CESSNA425	157	144	7.1	91.8	6.5	403,429	15.6	2,799.0	13.9
CESSNA441	199	142	15.4	71.7	11.1	503,424	16.9	3,525.8	6.9
CESSNA500	818	683	9.6	83.6	8.0	2,101,290	21.4	3,074.3	19.2
CESSNA501	262	240	7.6	91.6	7.0	807,129	12.4	3,362.5	9.7
CESSNA650	180	150	11.1	83.4	9.3	391,835	16.8	2,610.4	12.6
CESSNA750	63	14	19.8	23.3	4.6	33,519	24.5	2,285.2	14.5
CHILDS1	241	188	9.7	78.1	7.5	64,056	22.0	340.3	19.8
CHILDS2	107	72	14.6	68.0	9.9	69,302	17.2	953.0	9.1
CHRISHUSKY	95	78	8.8	82.8	7.3	52,191	20.0	663.9	18.0
CNDALRCL600	180	161	9.2	89.5	8.3	426,659	19.5	2,648.8	17.2
COMWTH185	80	31	23.4	39.9	9.3	51,971	24.8	1,628.3	8.3
CONAERLA4	391	335	7.0	85.7	6.0	462,975	12.3	1,381.1	10.2
CURTISTRVAIR	179	24	28.3	13.6	3.8	98,494	31.3	4,058.9	13.5
CVACBT/L13	139	48	19.6	35.0	6.8	134,375	25.7	2,765.9	16.7
DHAVDH82	65	45	13.1	69.5	9.1	137,838	16.6	3,052.5	10.2

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
DHAVDHC2	284	157	14.0	55.6	7.8	2,014,232	17.4	12,753.7	10.3
DHAVDHC6	77	24	43.6	31.5	13.7	339,271	48.5	14,009.5	21.2
DOUGDC3	188	93	28.5	49.6	14.1	1,422,244	32.5	15,251.5	15.7
EAGLEBAL	67	30	15.7	46.2	7.2	48,103	17.1	1,553.6	6.9
EMB110	44	7	51.8	17.0	8.8	58,343	56.3	7,784.3	22.1
ENSTRMF28 (12)	235	115	13.4	49.1	6.6	156,531	24.2	1,357.2	20.2
ENSTRMF28 (13)	102	80	6.6	79.2	5.2	142,905	14.0	1,769.6	12.4
FRCHLD24	232	45	28.1	19.7	5.5	87,336	30.7	1,908.5	12.5
FRCHLDM62	225	51	27.8	23.0	6.4	81,057	30.5	1,568.6	12.5
GRUMAVAA1	434	325	13.3	74.9	9.9	692,569	20.6	2,130.1	15.8
GRUMAVAA5	973	895	5.3	92.0	4.9	2,224,017	9.9	2,484.8	8.4
GRUMAVG164	484	252	26.5	52.1	13.8	955,562	28.0	3,788.6	9.0
GRUMAVG21	49	32	22.8	66.6	15.2	228,474	45.9	7,002.7	39.9
GULSTM112	586	492	7.7	84.0	6.5	1,078,930	19.9	2,192.8	18.3
GULSTM500	266	253	4.4	95.4	4.2	1,203,167	13.0	4,740.2	12.2
GULSTM560	77	69	14.1	90.7	12.8	288,511	22.7	4,132.3	17.8
GULSTM680	156	114	16.9	73.6	12.4	685,346	24.2	5,972.2	17.3
GULSTM680TP	55	38	26.1	70.2	18.3	158,825	27.5	4,115.7	8.5

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GULSTN690TP	312	257	11.0	82.6	9.1	1,119,095	22.0	4,340.2	19.1
GULSTMAA1	497	411	7.0	82.9	5.8	682,176	10.6	1,656.6	7.9
GULSTMAA5	927	758	8.7	81.8	7.1	1,882,156	11.3	2,481.7	7.2
GULSTMG1159	459	343	16.7	74.9	12.5	1,511,575	24.4	4,398.0	17.9
GULSTMG159	69	36	25.3	52.9	13.4	309,677	27.0	8,486.3	9.3
GULSTMG44	80	49	14.0	62.0	8.7	392,799	17.8	7,915.7	10.9
GULSTMG47	51	41	10.4	81.5	8.5	106,546	13.2	2,564.0	8.1
HELLIOH295	85	57	14.5	67.3	9.8	182,168	16.9	3,183.9	8.6
HILLERUH12	404	145	20.6	36.0	7.4	560,146	23.5	3,852.2	11.3
HUGHES269	552	280	19.3	50.8	9.8	921,851	30.6	3,289.9	23.7
HUGHES369 (12)	102	75	13.8	74.5	10.3	159,930	30.0	2,105.4	26.6
HUGHES369 (13)	587	449	11.9	76.6	9.1	2,928,240	20.0	6,514.0	16.1
HWKSLYDH125	350	318	6.3	91.1	5.7	1,122,955	16.8	3,521.6	15.6
HYNESB2	110	18	44.0	16.8	7.4	25,907	44.9	1,406.1	9.2
INTRCP200	52	29	20.0	56.7	11.3	67,921	21.1	2,304.7	6.8
ISRAEL1121	51	27	33.1	53.8	17.8	102,050	38.5	3,718.4	19.5
ISRAEL1124	250	235	6.6	94.2	6.3	587,704	14.2	2,496.2	12.5
JBMSTRDGA15	86	21	25.3	24.6	6.2	48,331	26.1	2,288.8	6.4

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
LEAR24	107	89	14.8	83.8	12.4	633,927	18.7	7,071.0	11.4
LEAR25	112	103	11.2	92.1	10.4	610,651	22.2	5,919.9	19.2
LEAR35	446	421	6.3	94.6	6.0	2,053,397	12.9	4,867.8	11.2
LEAR55	101	95	8.0	95.0	7.6	315,328	14.9	3,287.6	12.5
LKHEED1329	71	39	24.1	55.8	13.5	212,993	25.0	5,372.8	6.3
LUSCOM8	1,904	837	14.4	44.0	6.3	1,986,150	16.7	2,372.9	8.4
MAULEM4	247	188	9.8	76.4	7.5	330,769	13.5	1,752.9	9.3
MAULEM5	439	397	7.3	90.5	6.6	520,016	16.8	1,308.8	15.1
MAULEM6	87	80	9.4	92.3	8.6	68,093	25.7	847.6	23.9
MAULEM7	123	113	4.8	92.7	4.4	58,239	15.5	510.9	14.8
MCLISHFUNKB	136	57	17.3	41.9	7.3	117,243	20.6	2,055.3	11.2
MILITARY204	162	59	14.5	36.9	5.4	500,899	16.0	8,375.3	6.8
MNCOLUP90	50	11	24.6	22.6	5.6	28,409	33.1	2,517.9	22.2
MNNITEM18	118	52	25.1	44.9	11.3	68,084	30.0	1,285.7	16.5
MOONEYM20	6,012	5,194	3.2	86.4	2.8	13,853,107	5.4	2,667.0	4.3
MTSBSIMU2	356	203	25.4	57.2	14.6	862,040	29.7	4,230.6	15.3
MTSBSIMU300	70	63	7.6	91.2	6.9	141,679	11.3	2,220.3	8.4
NAMERT28	184	92	19.0	50.1	9.5	979,925	21.9	10,620.6	10.8

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
NAMERT6	202	129	18.6	64.0	11.9	878,743	25.2	6,792.7	17.0
NAVIONNAVION	1,107	723	9.9	65.4	6.5	2,518,217	13.7	3,478.5	9.5
NORWST65	63	39	21.6	62.8	13.6	100,647	23.2	2,542.2	8.5
PIPER600	363	299	11.0	82.4	9.1	765,927	13.4	2,559.2	7.6
PIPER602	258	211	11.5	81.9	9.4	397,477	13.8	1,880.9	7.7
PIPERJ3	3,981	2,028	8.0	51.0	4.1	5,851,533	10.7	2,884.2	7.1
PIPERJ4	210	44	23.6	21.0	5.0	98,551	26.2	2,231.1	11.3
PIPERJ5	288	140	14.4	48.6	7.0	362,721	18.6	2,590.3	11.8
PIPERPA14	96	44	54.1	46.4	25.1	181,185	56.1	4,067.1	14.5
PIPERPA15	163	81	18.5	50.0	9.3	138,991	22.8	1,705.7	13.3
PIPERPA16	320	112	31.0	35.3	10.9	249,817	33.1	2,212.9	11.7
PIPERPA17	96	58	15.0	61.3	9.2	109,008	19.5	1,853.1	12.5
PIPERPA18	3,430	2,126	9.8	62.0	6.1	6,456,674	13.7	3,035.9	9.6
PIPERPA20	416	254	15.1	61.1	9.2	874,650	23.4	3,438.9	17.9
PIPERPA22 (1)	863	561	14.5	65.1	9.4	1,256,171	17.3	2,236.0	9.5
PIPERPA22 (2)	3,341	2,030	8.4	60.8	5.1	5,531,171	9.3	2,724.5	3.9
PIPERPA23	2,795	1,716	10.4	61.4	6.4	7,213,893	12.5	4,202.3	7.0
PIPERPA24	2,886	2,498	4.4	86.6	3.8	9,285,826	6.1	3,716.0	4.2

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PIPERPA25	952	665	10.1	69.9	7.1	2,551,211	12.5	3,833.8	7.3
PIPERPA28 (1)	5,597	4,221	4.8	75.4	3.6	13,227,992	6.2	3,133.3	3.9
PIPERPA28 (2)	14,499	12,751	2.1	87.9	1.8	42,261,064	3.6	3,314.1	3.0
PIPERPA30	1,127	882	7.8	78.3	6.1	3,944,264	10.0	4,469.1	6.4
PIPERPA31 (3)	117	89	13.8	76.5	10.6	261,505	18.0	2,920.5	11.5
PIPERPA31 (4)	755	722	4.5	95.6	4.3	2,491,854	18.0	3,450.8	17.4
PIPERPA31T	450	373	10.1	83.1	8.4	1,085,026	12.1	2,902.7	6.7
PIPERPA32	3,812	3,210	4.6	84.2	3.9	8,834,065	7.7	2,751.9	6.1
PIPERPA34	1,507	1,443	3.5	95.8	3.4	3,799,778	8.6	2,632.1	7.9
PIPERPA36	260	215	14.7	82.9	12.2	550,032	19.1	2,553.2	12.1
PIPERPA38	972	743	10.0	76.5	7.7	2,900,128	13.6	3,898.2	9.2
PIPERPA42	87	73	11.2	84.7	9.5	168,530	14.8	2,285.9	9.8
PIPERPA44	271	232	11.4	85.9	9.8	889,925	16.7	3,824.1	12.1
PIPERPA46	374	350	5.0	93.8	4.7	563,092	9.8	1,604.3	8.4
RKWELLNA265	260	211	9.6	81.4	7.8	1,067,240	12.8	5,044.7	8.5
ROBSINR22	660	470	6.9	71.2	4.9	551,040	12.0	1,172.0	9.8
SCWZERG164	792	397	26.0	50.2	13.0	1,813,113	27.7	4,562.2	9.5
SKRSKYS58	57	8	86.6	15.6	13.5	40,799	87.5	4,583.2	12.8

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SKRSKY76	111	86	23.7	78.3	18.6	247,364	47.2	2,844.9	40.8
SLINDS100	269	210	12.4	78.4	9.7	358,506	15.4	1,699.4	9.0
SNIAS350	262	227	9.5	86.9	8.3	965,010	17.7	4,237.4	14.9
SOCATATB10	59	53	9.4	90.4	8.5	54,353	18.3	1,018.7	15.8
SOCATATB20	163	118	19.6	73.0	14.3	127,366	24.7	1,071.1	15.0
STNSON10	132	19	28.0	14.8	4.2	30,469	29.0	1,556.3	7.7
STNSONL5	118	38	16.8	33.0	5.5	77,325	17.8	1,985.5	6.0
STNSONV77	108	33	23.9	31.2	7.5	51,419	25.6	1,524.2	9.0
STOLAMRC3	206	73	17.2	35.8	6.2	139,060	29.6	1,886.3	24.1
SWRNGNSA226	141	91	11.1	64.7	7.2	483,443	14.7	5,086.7	6.7
SWRNGNSA227	118	57	46.3	48.8	22.6	253,035	51.4	4,397.3	22.4
SWRNGNSA26	65	57	13.8	88.6	12.2	304,340	17.6	5,287.2	11.0
TCRAFKD	272	91	15.7	33.7	5.3	149,728	19.2	1,631.8	11.0
TCRAFT19	110	85	9.6	77.5	7.5	71,666	16.1	840.1	12.9
TCRAFTBC	1,673	759	14.8	45.4	6.7	2,114,548	17.2	2,782.8	8.7
TCRAFTBL	194	69	13.8	35.7	4.9	143,018	16.4	2,066.5	8.8
TN55	60	29	15.6	48.5	7.5	209,315	19.5	7,193.0	11.8
UNIVACGC1	451	197	17.7	43.7	7.7	410,998	18.5	2,084.7	5.3

6.2 1993 GENERAL AVIATION TOTAL AND AVERAGE AIRFRAME HOURS PER ACTIVE AIRCRAFT
BY AIRCRAFT MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

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MANUFACTURER/ MODEL GROUP	AIRCRAFT POPULATION SIZE	ESTIMATE OF NUMBER ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	PERCENT STANDARD ERROR	ESTIMATE OF TOTAL AIRFRAME HOURS	PERCENT STANDARD ERROR	ESTIMATE AVERAGE AIRFRAME HOURS	PERCENT STANDARD ERROR
UNIVAR108	1,803	763	12.8	42.4	5.4	2,023,643	13.9	2,649.2	5.4
UNIVAR415	2,171	1,157	11.8	53.3	6.3	1,971,737	13.5	1,704.1	6.6
VARGA2150	123	100	11.4	81.7	9.4	105,746	17.4	1,052.0	13.1
WACO	563	205	15.7	36.4	5.7	480,194	18.9	2,337.6	10.0
WTHRLY201	53	34	20.6	65.7	13.5	127,275	23.0	3,655.8	10.2
TOTAL	245,971	176,006	0.7	71.6	0.5	543,844,160	1.2	3,058.6	0.9

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.
NUMBER IN PARENTHESES FOLLOWING GROUP NAME INDICATES THE AIRCRAFT TYPE TO WHICH THESE AIRCRAFT BELONG. SEE
THE FOLLOWING PAGE FOR A DESCRIPTION OF THESE AIRCRAFT TYPES. FOR ADDITIONAL INFORMATION, SEE APPENDIX B FOR AIRCRAFT
GROUP NAMES AND FAA MANUFACTURER/MODEL CODES.

AIRCRAFT DEFINITIONS AND TYPES USED FOR THE GENERAL AVIATION SURVEY

AIRCRAFT TYPE DEFINITION	AIRCRAFT TYPE
FIXED-WING PISTON: 1 ENGINE - 1-3 SEATS	(1)
FIXED-WING PISTON: 1 ENGINE 4 + SEATS	(2)
FIXED-WING PISTON: 2 ENGINE - 1-6 SEATS	(3)
FIXED-WING PISTON: 2 ENGINE - 7 + SEATS	(4)
FIXED-WING PISTON: OTHER	(5)
FIXED WING-TURBOPROP: 1 ENGINE	(6)
FIXED WING-TURBOPROP: 2 ENGINE - 1-12 SEATS	(7)
FIXED WING-TURBOPROP: 2 ENGINE - 13 + SEATS	(8)
FIXED WING-TURBOPROP: OTHER	(9)
FIXED WING - TURBOJET: 2 ENG	(10)
FIXED WING - TURBOJET: OTHER	(11)
ROTORCRAFT: PISTON	(12)
ROTORCRAFT: 1 ENGINE - TURBINE	(13)
ROTORCRAFT: MULTI-ENGINE - TURBINE	(14)
OTHER AIRCRAFT: GLIDERS	(15)
OTHER AIRCRAFT: LIGHTER-THAN-AIR	(16)
OTHER AIRCRAFT: EXPERIMENTAL - HOME BUILT	(17)
OTHER AIRCRAFT: EXPERIMENTAL - EXHIBITION	(18)
OTHER AIRCRAFT: EXPERIMENTAL - OTHER	(19)

6.3 1993 NUMBER OF ENGINES ON ACTIVE GENERAL AVIATION AIRCRAFT AND AVERAGE HOURS PER ENGINE
BY ENGINE MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 6

ENGINE MANUFACTURER/ MODEL GROUP	ESTIMATE OF ACTIVE ENGINES	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
OTHER	30,830	1.6	75.9	161	3.0
ALLSN 250C	906	8.9	76.4	544	12.7
ALLSN 501D	47	24.6	42.8	225	12.6
AMTR 430	8	*	6.9	6	*
AMTR AMTR	18,407	2.8	59.3	179	4.5
ARSRCHTPE331	252	10.9	77.2	161	10.8
CONT 6285	79	22.6	78.3	131	14.3
CONT A40	15	73.4	13.3	8	47.1
CONT A50	7	*	20.6	48	31.2
CONT A65	4,294	5.7	48.0	41	7.2
CONT A75	939	14.0	50.3	38	17.5
CONT A80	35	50.8	48.0	42	13.1
CONT C125	114	30.3	34.5	51	17.5
CONT C145	1,477	8.3	71.1	64	10.7
CONT C85	3,002	6.9	54.1	45	9.8
CONT C90	1,382	8.6	57.6	44	9.9
CONT E185	1,367	8.7	76.4	48	11.0

6.3 1993 NUMBER OF ENGINES ON ACTIVE GENERAL AVIATION AIRCRAFT AND AVERAGE HOURS PER ENGINE
BY ENGINE MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 6

ENGINE MANUFACTURER/ MODEL GROUP	ESTIMATE OF ACTIVE ENGINES	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
CONT E225	1,011	9.6	74.5	84	15.0
CONT O200	9,167	4.0	70.5	106	9.3
CONT O300	6,658	3.6	82.3	70	8.3
CONT O346	199	20.5	75.3	59	32.4
CONT O360	2,164	6.6	72.5	173	27.3
CONT O470	12,733	2.2	84.4	101	5.8
CONT O520	19,358	1.9	81.0	164	3.5
CONT R670	82	20.9	51.1	33	49.8
DHAVXGIPSY	60	10.9	67.5	39	17.5
FCD 6440	92	21.3	28.2	35	17.5
FRNKLN4AC150	0	*	2.8	97	48.3
FRNKLN4AC176	77	33.0	48.3	13	15.2
FRNKLN4AC199	27	39.3	19.8	42	24.5
FRNKLN6A4150	277	21.5	30.9	44	14.6
FRNKLN6A4165	504	14.6	51.1	51	15.3
FRNKLN6A4200	1	*	5.9	214	42.3
FRNKLN6A8215	98	19.9	58.5	50	12.4
FRNKLN6AV335	52	33.0	35.4	44	19.3

6.3 1993 NUMBER OF ENGINES ON ACTIVE GENERAL AVIATION AIRCRAFT AND AVERAGE HOURS PER ENGINE
BY ENGINE MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 6

ENGINE MANUFACTURER/ MODEL GROUP	ESTIMATE OF ACTIVE ENGINES	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
FRNKLN6AV350	160	12.8	79.0	70	19.3
FRNKLN6V4	57	35.8	36.7	129	45.6
GARRTTATF3	28	15.7	95.0	318	0.0
GARRTTTF731	509	6.3	84.3	240	9.8
GARRTTTPE331	1,199	7.1	69.0	203	8.0
GE CF34	167	6.8	95.0	419	6.3
GE CF700	264	5.3	92.3	235	8.9
GE CJ610	554	6.3	91.9	393	8.7
GE CT58	40	9.5	70.4	2,034	8.3
GLADENB5	18	80.3	26.3	17	34.2
GLADENK5	9	45.9	24.1	18	*
GLADENR5	118	10.4	69.9	23	21.5
JACOBPR755	256	14.4	59.7	59	11.8
JACOBSP755	106	16.6	32.7	46	18.8
JACOBSP915	43	29.3	63.5	9	34.0
LYC ALF502	64	9.0	95.0	282	5.3
LYC LTS101	238	7.6	88.9	428	13.8
LYC O145	283	17.2	39.3	28	14.4

6.3 1993 NUMBER OF ENGINES ON ACTIVE GENERAL AVIATION AIRCRAFT AND AVERAGE HOURS PER ENGINE
BY ENGINE MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 4 OF 6

ENGINE MANUFACTURER/ MODEL GROUP	ESTIMATE OF ACTIVE ENGINES	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
LYC 0235	7,210	3.9	71.4	221	7.1
LYC 0290	1,619	11.0	55.0	45	11.7
LYC 0320	28,839	1.8	78.3	153	5.9
LYC 0340	65	33.6	60.0	28	23.7
LYC 0360	18,634	1.9	82.3	135	5.5
LYC 0435	14	79.1	10.8	36	29.4
LYC 0480	539	9.2	53.9	82	9.8
LYC 0540	12,955	2.6	79.4	137	5.3
LYC 0541	798	5.9	80.3	115	14.1
LYC 0720	186	12.1	88.9	149	23.6
LYC R680	71	30.0	38.2	74	51.8
LYC T53	17	22.7	73.2	204	14.1
PWA JT12	136	19.7	52.4	203	13.0
PWA JT15	1,093	4.2	91.4	276	6.6
PWA JT8	7	56.4	20.9	14	0.0
PWA PT6	3,288	4.5	79.9	297	6.3

6.3 1993 NUMBER OF ENGINES ON ACTIVE GENERAL AVIATION AIRCRAFT AND AVERAGE HOURS PER ENGINE
BY ENGINE MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 5 OF 6

ENGINE MANUFACTURER/ MODEL GROUP	ESTIMATE OF ACTIVE ENGINES	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
PWA PT6T	69	8.3	90.3	608	15.2
PWA R1340	1,484	8.7	66.8	206	9.6
PWA R1830	52	53.8	14.6	188	21.1
PWA R2000	14	38.7	24.5	102	22.6
PWA R2800	20	*	8.8	22	34.4
PWA R985	1,194	9.1	39.9	153	9.4
ROTAX 277	23	26.1	87.1	258	0.0
RROYCEDART	65	17.5	45.1	238	10.5
RROYCESPEY	437	7.2	93.8	395	14.8
RROYCEVIPER	126	7.3	95.0	204	33.1
TMECA ARRIEL	233	7.1	88.4	621	18.3
TMECA ARTST3	0	0.0	0.0	0	0.0
TMECA MARBOR	75	18.1	87.2	15	39.7
WARNER165	39	30.6	31.5	32	33.9
WRIGHTOX5	8	81.2	12.3	14	25.4

6.3 1993 NUMBER OF ENGINES ON ACTIVE GENERAL AVIATION AIRCRAFT AND AVERAGE HOURS PER ENGINE
BY ENGINE MANUFACTURER/MODEL GROUP
EXCLUDES COMMUTER AIRCRAFT

PAGE 6 OF 6

ENGINE MANUFACTURER/ MODEL GROUP	ESTIMATE OF ACTIVE ENGINES	PERCENT STANDARD ERROR	ESTIMATE OF PERCENT ACTIVE	ESTIMATE OF AVERAGE HOURS	PERCENT STANDARD ERROR
WRIGHTR1300	28	23.6	79.5	177	44.0
WRIGHTR1820	189	13.1	79.1	112	30.5
WRIGHTR2600	44	9.4	84.8	33	20.8
WRIGHTR760	25	28.0	28.6	37	16.7
WRIGHTR975	4	*	5.8	13	20.2
WSK PZL	30	14.6	91.9	327	29.0
XENOAHG72	11	66.8	50.7	5	*
ALL ENGINES	208,419	0.9	75.5	144	1.6

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF
100.0 OR GREATER.
ENGINE MANUFACTURER/MODEL GROUPS FOR WHICH SEPARATE ESTIMATES ARE NOT AVAILABLE ARE NOT
LISTED IN THE TABLE, BUT ARE INCLUDED IN THE "ALL ENGINES" ESTIMATES. FOR ADDITIONAL
INFORMATION, SEE APPENDIX C FOR ENGINE GROUP NAMES AND FAA MANUFACTURER/MODEL CODES.

CHAPTER VII

AVIONICS FOR NON-COMMUTER AIRCRAFT

7.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 5

AIRCRAFT TYPE	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
FIXED WING										
FIXED WING - PISTON										
1 ENG: 1-3 SEATS										
ESTIMATED POPULATION	44,000	2,664	17,224	8,208	20,599	13,560	3,055	155	15,920	
% STANDARD ERROR	1.2	10.9	3.7	6.0	3.2	4.3	11.1	48.7	3.4	
% WITH CAPABILITY	64.0	3.9	25.1	11.9	30.0	19.7	4.4	0.2	23.2	
1 ENG: 4+ SEATS										
ESTIMATED POPULATION	101,836	3,177	39,147	15,104	74,780	82,197	10,735	1,023	4,048	
% STANDARD ERROR	0.5	10.7	2.6	4.8	1.2	1.0	5.8	19.8	8.8	
% WITH CAPABILITY	93.4	2.9	35.9	13.8	68.6	75.4	9.8	0.9	3.7	
1 ENGINE: TOTAL										
ESTIMATED POPULATION	145,836	5,841	56,371	23,312	95,379	95,757	13,790	1,178	19,968	
% STANDARD ERROR	0.5	7.7	2.1	3.7	1.2	1.1	5.2	18.3	3.2	
% WITH CAPABILITY	82.0	3.3	31.7	13.1	53.6	53.9	7.8	0.7	11.2	
2 ENG: 1-6 SEATS										
ESTIMATED POPULATION	13,571	563	4,490	1,555	11,093	12,524	1,135	27	252	
% STANDARD ERROR	1.6	23.4	7.2	14.1	2.8	2.1	16.0	73.5	24.3	
% WITH CAPABILITY	89.6	3.7	29.6	10.3	73.2	82.7	7.5	0.2	1.7	
2 ENG: 7+ SEATS										
ESTIMATED POPULATION	5,593	60	1,504	411	4,455	4,682	634	9	328	
% STANDARD ERROR	2.1	63.9	11.7	25.2	3.9	3.8	19.7	*	25.6	
% WITH CAPABILITY	88.9	1.0	23.9	6.5	70.8	74.4	10.1	0.1	5.2	
2 ENGINE: TOTAL										
ESTIMATED POPULATION	19,163	623	5,994	1,966	15,548	17,206	1,769	36	581	
% STANDARD ERROR	1.3	22.1	6.2	12.3	2.3	1.8	12.5	67.9	17.9	
% WITH CAPABILITY	89.4	2.9	28.0	9.2	72.5	80.3	8.3	0.2	2.7	

7.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 5

	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
AIRCRAFT TYPE										
PISTON: OTHER	ESTIMATED POPULATION	48	0	20	0	23	14	7	0	9
	% STANDARD ERROR	19.5	0.0	38.6	0.0	35.0	47.1	71.3	0.0	62.0
	% WITH CAPABILITY	51.3	0.0	21.1	0.0	24.5	15.2	7.3	0.0	9.4
PISTON: TOTAL	ESTIMATED POPULATION	165,048	6,464	62,385	25,278	110,950	112,977	15,566	1,214	20,557
	% STANDARD ERROR	0.5	7.3	2.0	3.6	1.1	0.9	4.8	17.9	3.2
	% WITH CAPABILITY	82.8	3.2	31.3	12.7	55.7	56.7	7.8	0.6	10.3
FIXED WING - TURBOPROP										
1 ENGINE: TOTAL	ESTIMATED POPULATION	687	8	29	36	563	480	108	0	124
	% STANDARD ERROR	5.0	*	61.0	56.0	7.5	6.8	37.5	0.0	31.2
	% WITH CAPABILITY	90.5	1.1	3.8	4.8	74.3	63.2	14.2	0.0	16.3
2 ENG: 1-12 SEATS	ESTIMATED POPULATION	3,567	137	770	231	3,235	3,426	267	85	66
	% STANDARD ERROR	2.3	39.4	16.1	26.3	3.6	2.7	29.3	50.2	64.1
	% WITH CAPABILITY	91.0	3.5	19.7	5.9	82.6	87.4	6.8	2.2	1.7
2 ENG: 13+ SEATS	ESTIMATED POPULATION	559	7	84	18	400	429	109	115	4
	% STANDARD ERROR	4.5	78.4	28.1	58.1	6.8	6.1	24.2	32.8	*
	% WITH CAPABILITY	100.0	1.3	16.0	3.4	76.5	82.0	20.8	22.0	0.7
2 ENGINE: TOTAL	ESTIMATED POPULATION	4,126	144	854	249	3,634	3,855	376	200	70
	% STANDARD ERROR	2.1	37.8	14.8	24.8	3.3	2.5	22.0	28.5	61.2
	% WITH CAPABILITY	92.9	3.2	19.2	5.6	81.8	86.8	8.5	4.5	1.6

7.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 5

AIRCRAFT TYPE	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS									
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF	
TURBOPROP: OTHER											
ESTIMATED POPULATION	37	0	0	0	0	20	20	6	0	17	
% STANDARD ERROR	28.3	0.0	0.0	0.0	0.0	47.4	47.4	98.1	0.0	52.3	
% WITH CAPABILITY	52.1	0.0	0.0	0.0	0.0	27.9	27.9	8.3	0.0	24.2	
TURBOPROP: TOTAL											
ESTIMATED POPULATION	4,850	152	883	285	4,217	4,354	200	489	200	211	
% STANDARD ERROR	1.9	36.5	14.4	22.8	3.0	2.4	28.5	18.8	28.5	27.7	
% WITH CAPABILITY	92.0	2.9	16.7	5.4	80.0	82.6	3.8	9.3	3.8	4.0	
FIXED WING - TURBOJET											
2 ENGINE TURBOJET											
ESTIMATED POPULATION	3,874	44	622	303	3,628	3,872	3,245	2,041	3,245	51	
% STANDARD ERROR	2.2	64.8	16.6	25.1	2.9	2.2	3.5	5.0	3.5	38.7	
% WITH CAPABILITY	91.2	1.0	14.6	7.1	85.4	91.2	76.4	48.1	76.4	1.2	
TURBOJET: OTHER											
ESTIMATED POPULATION	331	12	62	14	269	277	245	249	245	32	
% STANDARD ERROR	3.1	65.2	27.0	76.2	5.4	3.1	3.2	3.3	3.2	17.3	
% WITH CAPABILITY	76.6	2.8	14.3	3.1	62.2	64.0	56.6	57.5	56.6	7.5	
TURBOJET: TOTAL											
ESTIMATED POPULATION	4,206	56	684	316	3,897	4,149	3,490	2,290	3,490	84	
% STANDARD ERROR	2.0	52.8	15.3	24.2	2.7	2.0	3.3	4.5	3.3	24.7	
% WITH CAPABILITY	89.9	1.2	14.6	6.8	83.3	88.7	74.6	48.9	74.6	1.8	
FIXED WING: TOTAL											
ESTIMATED POPULATION	174,103	6,672	63,952	25,879	119,064	121,481	4,904	18,345	4,904	20,852	
% STANDARD ERROR	0.5	7.1	2.0	3.5	1.0	0.9	5.1	4.1	5.1	3.1	
% WITH CAPABILITY	83.2	3.2	30.6	12.4	56.9	58.0	2.3	8.8	2.3	10.0	

7.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 4 OF 5

	AIRCRAFT TYPE	AIRCRAFT SYSTEMS									VHF COMMUNICATIONS						
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF							
ROTORCRAFT																	
PISTON																	
	ESTIMATED POPULATION	2,750	89	1,040	79	1,265	539	267	2	834							
	% STANDARD ERROR	3.7	38.1	9.3	35.5	7.4	13.5	19.4	*	10.6							
	% WITH CAPABILITY	64.7	2.1	24.5	1.9	29.7	12.7	6.3	0.0	19.6							
1 ENG: TURBINE																	
	ESTIMATED POPULATION	2,421	17	632	41	1,781	1,669	358	1	282							
	% STANDARD ERROR	2.8	*	15.7	56.5	5.9	6.7	23.4	*	23.4							
	% WITH CAPABILITY	85.1	0.6	22.2	1.4	62.6	58.7	12.6	0.0	9.9							
MULTI-ENG: TURBINE																	
	ESTIMATED POPULATION	723	3	205	7	576	639	109	102	60							
	% STANDARD ERROR	3.3	*	18.1	80.0	6.4	5.1	28.6	19.3	42.5							
	% WITH CAPABILITY	90.1	0.4	25.5	0.8	71.7	79.7	13.6	12.7	7.4							
TURBINE TOTAL:																	
	ESTIMATED POPULATION	3,144	20	837	47	2,357	2,308	466	103	341							
	% STANDARD ERROR	2.3	88.0	12.7	49.9	4.7	5.0	19.1	19.1	20.7							
	% WITH CAPABILITY	86.2	0.5	23.0	1.3	64.6	63.3	12.8	2.8	9.4							
ROTORCRAFT: TOTAL																	
	ESTIMATED POPULATION	5,894	109	1,877	127	3,621	2,847	734	105	1,175							
	% STANDARD ERROR	2.1	35.1	7.6	29.0	4.0	4.8	14.1	19.2	9.6							
	% WITH CAPABILITY	74.6	1.4	23.8	1.6	45.8	36.0	9.3	1.3	14.9							
OTHER AIRCRAFT																	
GLIDERS:																	
	ESTIMATED POPULATION	1,043	164	343	444	677	190	38	0	758							
	% STANDARD ERROR	10.7	33.2	22.1	19.0	14.6	30.6	70.2	0.0	13.5							
	% WITH CAPABILITY	37.8	5.9	12.4	16.1	24.6	6.9	1.4	0.0	27.5							

7.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 5 OF 5

	AIRCRAFT TYPE	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
			AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
LIGHTER-THAN-AIR:	ESTIMATED POPULATION	591	296	0	1,741	72	697	482	0	2,257	
	% STANDARD ERROR	22.8	33.1	0.0	11.6	68.8	20.7	25.5	0.0	9.5	
	% WITH CAPABILITY	10.8	5.4	0.0	31.7	1.3	12.7	8.8	0.0	41.1	
EXPERIMENTAL											
	HOME-BUILT:										
	ESTIMATED POPULATION	6,911	772	1,770	2,570	3,330	1,282	324	43	2,807	
	% STANDARD ERROR	5.8	25.0	15.8	12.6	10.7	19.0	39.3	*	11.9	
	% WITH CAPABILITY	54.5	6.1	14.0	20.3	26.3	10.1	2.6	0.3	22.1	
EXHIBITION:											
	ESTIMATED POPULATION	1,299	185	459	413	664	219	12	7	490	
	% STANDARD ERROR	9.5	34.1	20.4	21.7	16.1	31.1	*	*	19.6	
	% WITH CAPABILITY	49.6	7.1	17.5	15.8	25.4	8.4	0.5	0.2	18.7	
OTHER:											
	ESTIMATED POPULATION	2,565	257	942	150	1,579	1,269	216	62	421	
	% STANDARD ERROR	4.3	28.0	12.9	37.3	8.5	10.3	30.8	59.1	21.3	
	% WITH CAPABILITY	78.0	7.8	28.6	4.6	48.0	38.6	6.6	1.9	12.8	
TOTAL ALL AIRCRAFT											
	ESTIMATED POPULATION	192,407	8,454	69,343	31,324	129,007	127,985	20,152	5,120	28,761	
	% STANDARD ERROR	0.5	6.3	1.9	3.2	1.0	0.9	3.9	5.1	2.8	
	% WITH CAPABILITY	78.9	3.5	28.4	12.8	52.9	52.5	8.3	2.1	11.8	

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.2 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT

BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

PRIMARY USE	AIRCRAFT SYSTEMS		VHF COMMUNICATIONS							
	AIRCRAFT ELECTRICAL SYSTEM	HAS	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
EXECUTIVE										
ESTIMATED POPULATION	10,407		336	2,447	895	9,035	9,844	2,572	3,062	63
% STANDARD ERROR	3.7		28.9	10.2	16.8	4.0	3.7	6.6	3.9	53.6
% WITH CAPABILITY	98.9		3.2	23.3	8.5	85.9	93.6	24.4	29.1	0.6
BUSINESS										
ESTIMATED POPULATION	31,854		1,340	10,831	5,370	24,979	26,723	3,418	262	1,212
% STANDARD ERROR	3.0		16.5	5.7	8.4	3.5	3.3	10.2	35.9	18.9
% WITH CAPABILITY	96.0		4.0	32.6	16.2	75.3	80.5	10.3	0.8	3.7
PERSONAL										
ESTIMATED POPULATION	103,192		5,465	40,568	23,079	69,301	67,690	9,328	898	11,705
% STANDARD ERROR	1.3		8.5	2.8	4.0	1.9	1.8	6.5	21.2	5.3
% WITH CAPABILITY	85.1		4.5	33.5	19.0	57.2	55.9	7.7	0.7	9.7
INSTRUCTIONAL										
ESTIMATED POPULATION	14,489		202	4,380	531	11,126	7,801	1,235	50	506
% STANDARD ERROR	4.9		46.9	9.8	27.4	5.7	7.1	19.7	83.8	27.8
% WITH CAPABILITY	95.1		1.3	28.8	3.5	73.0	51.2	8.1	0.3	3.3
AERIAL APPLICATION										
ESTIMATED POPULATION	4,216		53	448	132	1,060	778	503	8	3,699
% STANDARD ERROR	6.2		60.9	27.1	44.3	14.7	16.9	21.3	92.0	6.0
% WITH CAPABILITY	76.4		1.0	8.1	2.4	19.2	14.1	9.1	0.2	67.0
AERIAL OBSERVATION										
ESTIMATED POPULATION	4,636		71	1,252	634	3,536	3,373	766	46	380
% STANDARD ERROR	8.5		72.4	16.2	25.5	9.8	10.1	22.0	77.1	34.7
% WITH CAPABILITY	93.3		1.4	25.2	12.8	71.2	67.9	15.4	0.9	7.6
SIGHT SEEING										
ESTIMATED POPULATION	802		21	334	410	550	528	341	5	218
% STANDARD ERROR	19.2		*	30.9	30.5	23.3	26.6	32.5	44.7	39.5
% WITH CAPABILITY	47.6		1.2	19.8	24.3	32.6	31.4	20.3	0.3	13.0

7.2 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

PRIMARY USE	AIRCRAFT SYSTEMS		VHF COMMUNICATIONS									
	AIRCRAFT HAS ELECTRICAL SYSTEM		360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF		
EXTERNAL LOAD												
ESTIMATED POPULATION	163		6	27	9	148	149	4	2	0		
% STANDARD ERROR	29.1	91.4	91.4	67.2	87.3	31.2	30.7	83.5	*	0.0		
% WITH CAPABILITY	97.2	3.3	3.3	16.0	5.2	88.0	88.6	2.1	1.0	0.0		
OTHER WORK USE												
ESTIMATED POPULATION	985	115	115	300	315	759	437	69	3	100		
% STANDARD ERROR	17.1	40.0	40.0	29.4	35.0	20.6	26.1	73.4	*	50.7		
% WITH CAPABILITY	83.9	9.8	9.8	25.5	26.8	64.6	37.2	5.9	0.3	8.5		
AIR TAXI												
ESTIMATED POPULATION	3,820	16	16	774	80	3,332	3,269	312	205	135		
% STANDARD ERROR	7.5	*	*	18.6	49.3	8.3	8.0	25.4	24.6	40.5		
% WITH CAPABILITY	96.9	0.4	0.4	19.6	2.0	84.5	82.9	7.9	5.2	3.4		
OTHER												
ESTIMATED POPULATION	3,742	258	258	1,304	451	2,681	2,409	570	125	517		
% STANDARD ERROR	9.4	42.5	42.5	16.2	31.4	11.4	11.7	24.1	33.6	30.9		
% WITH CAPABILITY	80.3	5.5	5.5	28.0	9.7	57.5	51.7	12.2	2.7	11.1		
INACTIVE												
ESTIMATED POPULATION	17,451	877	877	8,133	1,938	6,780	7,640	1,528	239	7,676		
% STANDARD ERROR	2.7	15.3	15.3	5.1	10.7	5.8	5.3	13.6	25.1	4.2		
% WITH CAPABILITY	74.8	3.8	3.8	34.8	8.3	29.0	32.7	6.5	1.0	32.9		
TOTAL ALL AIRCRAFT												
ESTIMATED POPULATION	192,407	8,454	8,454	69,343	31,324	129,007	127,985	20,152	5,120	28,761		
% STANDARD ERROR	0.5	6.3	6.3	1.9	3.2	1.0	0.9	3.9	5.1	2.8		
% WITH CAPABILITY	78.9	3.5	3.5	28.4	12.8	52.9	52.5	8.3	2.1	11.8		

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.3 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

REGION	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS									
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF	
ALASKAN ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	6,202	280	2,292	895	3,709	2,719	476	79	638		
	6.6	30.8	11.3	20.3	9.0	10.4	23.1	22.2	18.8		
	91.5	4.1	33.8	13.2	54.7	40.1	7.0	1.2	9.4		
CENTRAL ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	12,130	549	4,933	1,570	7,119	7,293	1,270	415	2,482		
	5.4	25.9	8.8	15.4	7.1	7.1	16.8	23.7	11.2		
	86.0	3.9	35.0	11.1	50.5	51.7	9.0	2.9	17.6		
EASTERN ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	23,029	1,052	8,734	4,396	15,903	15,948	2,211	755	3,236		
	3.8	18.3	6.5	9.3	4.7	4.7	12.4	16.9	9.6		
	86.6	4.0	32.9	16.5	59.8	60.0	8.3	2.8	12.2		
GREAT LAKES ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	34,441	1,769	12,866	5,204	22,644	22,724	4,007	1,107	6,057		
	3.0	14.5	5.3	8.3	3.8	3.8	9.3	13.2	6.9		
	85.1	4.4	31.8	12.9	56.0	56.2	9.9	2.7	15.0		
NEW ENGLAND ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	8,694	454	3,139	1,777	5,612	5,679	1,085	176	1,585		
	6.5	28.9	10.9	15.1	8.2	8.2	18.8	42.0	14.4		
	83.5	4.4	30.1	17.1	53.9	54.5	10.4	1.7	15.2		
NORTHWEST MOUNTAIN ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	20,525	755	7,720	3,641	12,923	12,686	2,201	447	3,018		
	4.0	21.8	6.9	10.1	5.2	5.2	12.8	23.7	10.2		
	85.1	3.1	32.0	15.1	53.6	52.6	9.1	1.9	12.5		

7.3 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
REGION	AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF	
SOUTHERN										
ESTIMATED POPULATION	31,564	1,558	10,216	5,056	22,322	22,211	3,067	907	4,469	
% STANDARD ERROR	3.2	14.5	6.0	8.4	3.8	3.8	10.5	17.3	8.2	
% WITH CAPABILITY	88.2	4.4	28.6	14.1	62.4	62.1	8.6	2.5	12.5	
SOUTHWESTERN										
ESTIMATED POPULATION	23,562	765	8,219	2,854	15,697	15,650	2,794	637	4,369	
% STANDARD ERROR	3.7	21.7	6.7	11.1	4.7	4.7	11.5	18.0	7.9	
% WITH CAPABILITY	86.8	2.8	30.3	10.5	57.8	57.6	10.3	2.3	16.1	
WESTERN-PACIFIC										
ESTIMATED POPULATION	32,117	1,272	11,209	5,924	23,040	23,035	2,987	598	2,840	
% STANDARD ERROR	3.1	15.9	5.6	7.7	3.7	3.7	10.5	20.1	9.7	
% WITH CAPABILITY	90.5	3.6	31.6	16.7	64.9	64.9	8.4	1.7	8.0	
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	192,407	8,454	69,343	31,324	129,007	127,985	20,152	5,120	28,761	
% STANDARD ERROR	0.5	6.3	1.9	3.2	1.0	0.9	3.9	5.1	2.8	
% WITH CAPABILITY	78.9	3.5	28.4	12.8	52.9	52.5	8.3	2.1	11.8	

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

7.4 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 8

	STATE	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS									
			AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF	
ALABAMA	ESTIMATED POPULATION	3,116	40	846	386	2,171	2,071	339	46	827		
	% STANDARD ERROR	10.9	69.7	21.6	30.4	13.3	13.6	33.0	54.4	19.4		
	% WITH CAPABILITY	83.1	1.1	22.6	10.3	57.9	55.2	9.0	1.2	22.0		
ALASKA	ESTIMATED POPULATION	6,202	280	2,292	895	3,709	2,719	476	79	638		
	% STANDARD ERROR	6.6	30.8	11.3	20.3	9.0	10.4	23.1	22.2	18.8		
	% WITH CAPABILITY	91.5	4.1	33.8	13.2	54.7	40.1	7.0	1.2	9.4		
ARIZONA	ESTIMATED POPULATION	4,856	163	1,458	747	3,457	3,106	434	87	777		
	% STANDARD ERROR	8.5	45.4	16.2	22.3	10.2	10.6	29.8	54.1	18.1		
	% WITH CAPABILITY	90.9	3.1	27.3	14.0	64.7	58.2	8.1	1.6	14.6		
ARKANSAS	ESTIMATED POPULATION	2,586	44	664	328	1,647	1,713	201	88	748		
	% STANDARD ERROR	11.7	96.8	22.7	33.0	15.1	14.6	35.5	48.0	20.9		
	% WITH CAPABILITY	84.7	1.4	21.8	10.7	54.0	56.1	6.6	2.9	24.5		
CALIFORNIA	ESTIMATED POPULATION	24,473	1,043	8,523	4,784	17,762	17,946	2,361	464	1,937		
	% STANDARD ERROR	3.6	17.5	6.4	8.6	4.3	4.3	11.7	23.4	12.1		
	% WITH CAPABILITY	90.0	3.8	31.3	17.6	65.3	66.0	8.7	1.7	7.1		
COLORADO	ESTIMATED POPULATION	4,072	56	1,540	875	2,720	2,866	420	104	289		
	% STANDARD ERROR	9.7	71.1	16.0	21.9	11.8	11.6	30.5	46.7	29.6		
	% WITH CAPABILITY	87.7	1.2	33.2	18.9	58.6	61.7	9.0	2.2	6.2		
CONNECTICUT	ESTIMATED POPULATION	1,675	22	494	426	1,162	1,063	256	70	234		
	% STANDARD ERROR	15.0	*	28.2	30.5	18.0	19.2	37.7	62.6	31.9		
	% WITH CAPABILITY	87.0	1.1	25.7	22.1	60.3	55.2	13.3	3.6	12.2		

7.4 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 8

STATE	AIRCRAFT SYSTEMS		VHF COMMUNICATIONS							
	AIRCRAFT HAS ELECTRICAL SYSTEM		360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
DELAWARE										
ESTIMATED POPULATION	1,456		116	397	334	1,081	946	26	47	168
% STANDARD ERROR	15.2		48.1	29.8	34.3	17.8	18.9	61.6	73.8	36.0
% WITH CAPABILITY	92.9		7.4	25.3	21.3	69.0	60.4	1.6	3.0	10.7
DISTRICT OF COLUMBIA										
ESTIMATED POPULATION	27		0	7	6	23	29	13	9	0
% STANDARD ERROR	*		0.0	*	*	*	*	*	*	0.0
% WITH CAPABILITY	94.4		0.0	23.8	22.4	77.6	100.0	43.6	32.5	0.0
FLORIDA										
ESTIMATED POPULATION	10,624		802	3,059	1,615	8,548	8,169	861	459	966
% STANDARD ERROR	5.6		20.2	10.6	14.7	6.3	6.4	19.4	22.5	18.0
% WITH CAPABILITY	89.9		6.8	25.9	13.7	72.3	69.1	7.3	3.9	8.2
GEORGIA										
ESTIMATED POPULATION	3,911		121	1,320	661	2,694	2,662	535	122	674
% STANDARD ERROR	9.7		45.6	17.0	23.1	11.7	11.5	24.7	37.4	21.4
% WITH CAPABILITY	87.8		2.7	29.6	14.8	60.5	59.8	12.0	2.7	15.1
HAWAII										
ESTIMATED POPULATION	531		4	170	57	334	283	11	10	51
% STANDARD ERROR	22.2		*	44.0	80.0	27.6	30.7	*	*	61.7
% WITH CAPABILITY	97.1		0.7	31.0	10.4	61.1	51.7	1.9	1.7	9.4
IDAHO										
ESTIMATED POPULATION	1,997		105	796	280	1,218	1,062	176	97	310
% STANDARD ERROR	13.1		54.3	21.8	37.1	16.8	18.1	43.0	54.8	29.2
% WITH CAPABILITY	86.3		4.5	34.4	12.1	52.6	45.9	7.6	4.2	13.4
ILLINOIS										
ESTIMATED POPULATION	6,220		382	1,886	1,202	4,958	4,542	919	233	819
% STANDARD ERROR	7.6		33.9	14.1	18.4	8.6	9.0	19.0	29.4	19.6
% WITH CAPABILITY	85.2		5.2	25.8	16.5	68.0	62.3	12.6	3.2	11.2

7.4 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 8

	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
STATE										
INDIANA										
ESTIMATED POPULATION	3,795	136	1,580	708	2,608	2,725	455	173	503	
% STANDARD ERROR	9.8	48.2	15.8	22.0	11.7	11.7	27.2	32.7	24.9	
% WITH CAPABILITY	83.1	3.0	34.6	15.5	57.1	59.7	10.0	3.8	11.0	
IOWA										
ESTIMATED POPULATION	2,609	253	989	296	1,682	1,710	482	83	500	
% STANDARD ERROR	11.9	37.7	19.2	36.1	14.8	14.9	29.4	55.1	27.1	
% WITH CAPABILITY	83.6	8.1	31.7	9.5	53.9	54.8	15.4	2.7	16.0	
KANSAS										
ESTIMATED POPULATION	3,314	104	1,224	404	2,278	2,234	223	101	477	
% STANDARD ERROR	10.6	56.3	18.0	29.5	12.8	13.0	38.3	44.8	24.9	
% WITH CAPABILITY	87.9	2.8	32.5	10.7	60.4	59.3	5.9	2.7	12.7	
KENTUCKY										
ESTIMATED POPULATION	1,969	162	614	431	1,213	1,105	135	37	387	
% STANDARD ERROR	14.2	51.5	25.0	31.4	18.0	18.6	53.1	79.0	29.5	
% WITH CAPABILITY	84.1	6.9	26.2	18.4	51.8	47.2	5.8	1.6	16.5	
LOUISIANA										
ESTIMATED POPULATION	2,428	58	686	372	1,723	1,628	321	69	632	
% STANDARD ERROR	12.0	72.7	23.1	31.3	14.4	15.0	33.8	53.1	22.4	
% WITH CAPABILITY	83.2	2.0	23.5	12.7	59.0	55.8	11.0	2.4	21.7	
MAINE										
ESTIMATED POPULATION	1,180	44	579	100	715	745	85	3	206	
% STANDARD ERROR	18.1	79.7	26.4	63.2	23.4	23.3	67.3	*	42.6	
% WITH CAPABILITY	89.4	3.3	43.8	7.6	54.1	56.4	6.5	0.2	15.6	
MARYLAND										
ESTIMATED POPULATION	2,587	149	707	588	1,839	1,579	234	53	479	
% STANDARD ERROR	11.7	49.2	22.8	26.7	14.0	15.2	38.1	74.1	26.1	
% WITH CAPABILITY	86.9	5.0	23.8	19.8	61.8	53.0	7.8	1.8	16.1	

7.4 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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	STATE	AIRCRAFT HAS ELECTRICAL SYSTEM	VHF COMMUNICATIONS									
			360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF		
MASSACHUSETTS	ESTIMATED POPULATION	3,007	105	956	798	2,138	2,318	375	87	162		
	% STANDARD ERROR	11.5	62.3	20.1	23.3	13.7	13.3	33.0	66.2	44.1		
	% WITH CAPABILITY	92.9	3.2	29.5	24.7	66.1	71.6	11.6	2.7	5.0		
MICHIGAN	ESTIMATED POPULATION	6,211	295	2,205	1,221	4,265	4,648	905	244	703		
	% STANDARD ERROR	7.7	35.3	13.3	17.0	9.3	9.0	20.5	32.1	20.7		
	% WITH CAPABILITY	87.6	4.2	31.1	17.2	60.1	65.5	12.8	3.4	9.9		
MINNESOTA	ESTIMATED POPULATION	5,168	176	2,016	406	3,023	2,876	442	97	1,266		
	% STANDARD ERROR	8.2	44.4	13.7	27.6	10.9	11.2	27.2	40.9	15.4		
	% WITH CAPABILITY	83.4	2.8	32.6	6.5	48.8	46.4	7.1	1.6	20.4		
MISSISSIPPI	ESTIMATED POPULATION	1,750	29	626	124	1,090	1,023	206	68	380		
	% STANDARD ERROR	14.1	87.9	24.5	50.4	18.0	18.8	40.8	75.3	27.5		
	% WITH CAPABILITY	87.2	1.4	31.2	6.2	54.3	51.0	10.3	3.4	18.9		
MISSOURI	ESTIMATED POPULATION	4,115	123	1,871	589	2,212	2,318	368	184	710		
	% STANDARD ERROR	9.7	57.3	14.7	25.0	13.1	12.7	31.1	39.2	21.2		
	% WITH CAPABILITY	87.5	2.6	39.8	12.5	47.0	49.3	7.8	3.9	15.1		
MONTANA	ESTIMATED POPULATION	2,043	69	756	249	997	1,212	200	21	484		
	% STANDARD ERROR	13.7	69.0	23.0	44.5	19.4	18.1	47.0	*	25.6		
	% WITH CAPABILITY	90.4	3.1	33.5	11.0	44.2	53.7	8.9	1.0	21.4		
NEBRASKA	ESTIMATED POPULATION	2,092	68	849	280	948	1,031	196	46	794		
	% STANDARD ERROR	12.9	75.3	21.0	37.9	19.7	19.1	36.3	54.2	19.4		
	% WITH CAPABILITY	83.2	2.7	33.8	11.2	37.7	41.0	7.8	1.8	31.6		

7.4 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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	STATE	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
			AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
NEVADA	ESTIMATED POPULATION	2,175	61	1,004	337	1,462	1,627	174	37	70	
	% STANDARD ERROR	12.3	76.5	18.6	32.5	14.7	14.7	48.9	57.1	58.3	
	% WITH CAPABILITY	94.5	2.6	43.6	14.6	63.5	70.6	7.6	1.6	3.1	
NEW HAMPSHIRE	ESTIMATED POPULATION	1,632	94	601	281	803	871	191	14	451	
	% STANDARD ERROR	14.8	63.0	23.6	36.4	21.3	20.5	44.4	*	27.4	
	% WITH CAPABILITY	80.9	4.7	29.8	13.9	39.8	43.2	9.5	0.7	22.3	
NEW JERSEY	ESTIMATED POPULATION	3,291	119	1,118	1,001	2,573	2,660	458	158	269	
	% STANDARD ERROR	10.7	60.2	18.8	19.9	12.0	11.9	27.2	40.9	33.9	
	% WITH CAPABILITY	87.1	3.2	29.6	26.5	68.1	70.4	12.1	4.2	7.1	
NEW MEXICO	ESTIMATED POPULATION	1,891	150	627	320	1,426	1,277	212	98	496	
	% STANDARD ERROR	13.6	48.3	23.6	30.0	16.1	17.1	42.9	61.2	24.5	
	% WITH CAPABILITY	72.7	5.8	24.1	12.3	54.8	49.1	8.2	3.8	19.1	
NEW YORK	ESTIMATED POPULATION	5,970	160	2,532	811	3,609	3,774	526	158	798	
	% STANDARD ERROR	8.0	48.0	12.3	21.3	10.3	10.0	24.3	26.3	20.4	
	% WITH CAPABILITY	90.1	2.4	38.2	12.2	54.5	57.0	7.9	2.4	12.0	
NORTH CAROLINA	ESTIMATED POPULATION	4,017	187	1,596	703	2,584	2,768	395	33	296	
	% STANDARD ERROR	9.7	41.2	16.3	22.8	12.2	12.0	29.8	*	30.8	
	% WITH CAPABILITY	91.3	4.3	36.3	16.0	58.7	62.9	9.0	0.7	6.7	
NORTH DAKOTA	ESTIMATED POPULATION	1,743	121	668	246	722	824	46	13	713	
	% STANDARD ERROR	14.6	55.9	24.5	38.5	23.4	21.9	72.7	*	20.6	
	% WITH CAPABILITY	81.4	5.6	31.2	11.5	33.7	38.4	2.1	0.6	33.3	

7.4 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	AIRCRAFT HAS ELECTRICAL SYSTEM	VHF COMMUNICATIONS									
		360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF		
OHIO	ESTIMATED POPULATION	5,866	354	2,044	725	4,224	3,958	715	175	884	
	% STANDARD ERROR	7.9	30.4	13.9	21.2	9.4	9.7	23.0	28.5	19.8	
	% WITH CAPABILITY	88.5	5.3	30.8	10.9	63.7	59.7	10.8	2.6	13.3	
OKLAHOMA	ESTIMATED POPULATION	3,840	21	1,575	228	2,201	2,331	375	129	329	
	% STANDARD ERROR	9.9	99.8	16.3	41.4	12.7	12.6	31.6	38.0	28.7	
	% WITH CAPABILITY	95.5	0.5	39.1	5.7	54.7	58.0	9.3	3.2	8.2	
OREGON	ESTIMATED POPULATION	4,335	300	1,266	640	2,983	2,771	397	56	578	
	% STANDARD ERROR	9.0	37.3	16.7	23.5	11.0	11.2	28.8	43.0	24.3	
	% WITH CAPABILITY	87.3	6.0	25.5	12.9	60.0	55.8	8.0	1.1	11.6	
PENNSYLVANIA	ESTIMATED POPULATION	5,332	140	2,357	1,024	3,983	3,933	510	186	515	
	% STANDARD ERROR	8.4	46.9	13.0	19.6	9.8	10.0	27.9	38.7	21.7	
	% WITH CAPABILITY	86.6	2.3	38.3	16.6	64.7	63.9	8.3	3.0	8.4	
RHODE ISLAND	ESTIMATED POPULATION	701	89	273	90	486	420	159	3	135	
	% STANDARD ERROR	24.3	74.9	37.7	67.3	29.1	30.7	48.8	*	58.1	
	% WITH CAPABILITY	79.8	10.2	31.1	10.2	55.3	47.8	18.1	0.3	15.3	
SOUTH CAROLINA	ESTIMATED POPULATION	1,965	139	714	321	1,163	1,290	317	47	514	
	% STANDARD ERROR	13.7	53.7	23.5	32.2	17.9	17.4	35.4	77.6	25.4	
	% WITH CAPABILITY	84.4	6.0	30.7	13.8	50.0	55.4	13.6	2.0	22.1	
SOUTH DAKOTA	ESTIMATED POPULATION	1,217	10	464	83	509	576	120	10	768	
	% STANDARD ERROR	16.9	*	28.3	60.6	27.1	25.2	47.1	*	20.0	
	% WITH CAPABILITY	66.0	0.6	25.2	4.5	27.6	31.3	6.5	0.5	41.7	

7.4 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	AIRCRAFT SYSTEMS		VHF COMMUNICATIONS									
	AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF			
TENNESSEE	3,197	59	895	689	2,286	2,341	246	93	289			
ESTIMATED POPULATION	11.0	61.8	21.6	24.5	12.8	12.7	37.2	62.7	33.0			
% STANDARD ERROR	89.5	1.7	25.0	19.3	64.0	65.5	6.9	2.6	8.1			
% WITH CAPABILITY												
TEXAS	12,817	493	4,667	1,607	8,699	8,701	1,685	252	2,165			
ESTIMATED POPULATION	5.2	27.4	8.9	15.0	6.5	6.4	15.2	26.1	11.3			
% STANDARD ERROR	88.0	3.4	32.0	11.0	59.7	59.7	11.6	1.7	14.9			
% WITH CAPABILITY												
UTAH	1,611	102	577	231	1,082	857	181	67	362			
ESTIMATED POPULATION	15.2	65.9	26.0	40.7	18.3	19.9	40.7	77.1	32.4			
% STANDARD ERROR	76.8	4.9	27.5	11.0	51.6	40.8	8.6	3.2	17.3			
% WITH CAPABILITY												
VERMONT	498	100	236	81	308	261	18	0	397			
ESTIMATED POPULATION	26.5	54.8	40.9	62.1	33.6	38.7	*	0.0	28.7			
% STANDARD ERROR	48.1	9.6	22.7	7.8	29.7	25.2	1.7	0.0	38.3			
% WITH CAPABILITY												
VIRGINIA	3,306	267	1,219	515	2,096	2,176	274	134	536			
ESTIMATED POPULATION	10.4	35.2	17.0	27.8	13.4	13.0	32.3	39.1	22.0			
% STANDARD ERROR	85.0	6.9	31.3	13.2	53.9	56.0	7.0	3.4	13.8			
% WITH CAPABILITY												
WASHINGTON	5,553	78	2,293	1,220	3,404	3,484	808	94	704			
ESTIMATED POPULATION	8.1	53.5	12.6	16.8	10.5	10.5	21.7	52.5	21.6			
% STANDARD ERROR	84.4	1.2	34.8	18.5	51.7	52.9	12.3	1.4	10.7			
% WITH CAPABILITY												
WEST VIRGINIA	1,060	100	397	117	700	851	171	9	471			
ESTIMATED POPULATION	19.5	68.2	32.0	48.0	24.1	22.3	51.8	*	29.3			
% STANDARD ERROR	67.7	6.4	25.4	7.5	44.7	54.4	10.9	0.6	30.1			
% WITH CAPABILITY												

7.4 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
STATE										
WISCONSIN										
ESTIMATED POPULATION	4,221	295	2,003	614	2,334	2,575	405	162	402	
% STANDARD ERROR	9.5	36.6	13.9	25.8	12.9	12.4	31.9	44.7	26.4	
% WITH CAPABILITY	89.8	6.3	42.6	13.1	49.7	54.8	8.6	3.4	8.5	
WYOMING										
ESTIMATED POPULATION	916	44	492	145	519	434	20	8	290	
% STANDARD ERROR	20.1	78.8	29.1	46.7	25.9	28.4	*	*	33.6	
% WITH CAPABILITY	73.1	3.5	39.3	11.6	41.4	34.6	1.6	0.7	23.2	
PUERTO RICO										
ESTIMATED POPULATION	923	15	536	73	501	704	33	2	118	
% STANDARD ERROR	20.8	*	28.8	79.4	27.5	23.8	88.5	*	56.6	
% WITH CAPABILITY	92.5	1.5	53.7	7.3	50.1	70.6	3.3	0.2	11.9	
OTHER U.S. TERRITORIES										
ESTIMATED POPULATION	174	4	64	54	97	151	8	1	21	
% STANDARD ERROR	34.5	*	50.7	59.6	50.6	38.0	*	*	91.8	
% WITH CAPABILITY	96.5	2.3	35.3	30.2	53.9	83.8	4.4	0.7	11.9	

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.5 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
1 TO 5 YEARS OLD	ESTIMATED POPULATION	7,825	374	1,271	2,411	5,608	4,829	1,268	627	1,320
	% STANDARD ERROR	5.8	30.0	14.8	12.1	6.8	7.2	13.6	17.6	14.7
	% WITH CAPABILITY	17.8	0.9	2.9	5.5	12.8	11.0	2.9	1.4	3.0
6 TO 10 YEARS OLD	ESTIMATED POPULATION	7,074	361	1,314	1,642	5,683	5,238	1,327	927	1,087
	% STANDARD ERROR	6.1	32.2	14.5	14.6	6.7	6.9	13.7	12.9	18.0
	% WITH CAPABILITY	19.4	1.0	3.6	4.5	15.6	14.4	3.6	2.5	3.0
11 TO 15 YEARS OLD	ESTIMATED POPULATION	24,336	636	5,554	2,481	19,855	19,022	3,719	1,111	1,986
	% STANDARD ERROR	3.5	23.1	8.2	12.0	4.0	4.0	9.4	13.0	12.7
	% WITH CAPABILITY	64.2	1.7	14.6	6.5	52.4	50.2	9.8	2.9	5.2
16 TO 20 YEARS OLD	ESTIMATED POPULATION	38,711	1,456	12,057	4,715	29,380	28,048	4,469	1,003	2,486
	% STANDARD ERROR	2.7	15.8	5.5	9.0	3.2	3.3	9.1	14.4	11.0
	% WITH CAPABILITY	100.0	4.9	40.7	15.9	99.2	94.7	15.1	3.4	8.4
21 TO 25 YEARS OLD	ESTIMATED POPULATION	22,325	779	9,010	3,377	16,619	16,417	1,951	317	969
	% STANDARD ERROR	3.9	21.3	6.5	10.7	4.6	4.6	14.3	30.1	19.1
	% WITH CAPABILITY	90.6	3.2	36.6	13.7	67.4	66.6	7.9	1.3	3.9
26 TO 30 YEARS OLD	ESTIMATED POPULATION	28,418	1,242	12,553	4,159	19,458	21,869	2,853	517	1,307
	% STANDARD ERROR	3.3	18.0	5.4	9.8	4.2	3.9	11.5	21.5	15.5
	% WITH CAPABILITY	100.0	22.8	100.0	76.2	100.0	100.0	52.3	9.5	23.9

7.5 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMPUTER AIRCRAFT

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AGE OF AIRCRAFT	AIRCRAFT SYSTEMS		VHF COMMUNICATIONS							
	AIRCRAFT HAS ELECTRICAL SYSTEM		360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
31 TO 35 YEARS OLD										
ESTIMATED POPULATION	15,173		408	7,038	2,680	10,412	11,459	1,109	242	607
% STANDARD ERROR	4.5		28.6	7.3	12.0	5.6	5.3	18.5	36.7	22.4
% WITH CAPABILITY	100.0		11.1	100.0	72.8	100.0	100.0	30.1	6.6	16.5
36 TO 40 YEARS OLD										
ESTIMATED POPULATION	9,420		226	4,016	1,863	6,196	6,337	903	70	344
% STANDARD ERROR	5.9		40.7	9.6	14.4	7.5	7.4	21.0	66.0	32.9
% WITH CAPABILITY	100.0		5.3	94.2	43.7	100.0	100.0	21.2	1.6	8.1
41 TO 45 YEARS OLD										
ESTIMATED POPULATION	4,708		195	1,884	1,151	3,045	2,456	191	1	214
% STANDARD ERROR	7.0		36.3	11.6	16.3	9.1	10.4	39.1	*	42.5
% WITH CAPABILITY	100.0		12.8	100.0	75.6	100.0	100.0	12.5	0.1	14.1
46 TO 50 YEARS OLD										
ESTIMATED POPULATION	7,179		795	2,835	2,787	3,412	2,618	332	18	3,431
% STANDARD ERROR	5.0		19.2	8.9	9.9	7.9	9.3	28.5	82.7	8.6
% WITH CAPABILITY	100.0		16.4	58.3	57.3	70.2	53.9	6.8	0.4	70.6
51 TO 55 YEARS OLD										
ESTIMATED POPULATION	1,549		312	571	603	790	610	129	0	1,274
% STANDARD ERROR	10.3		26.6	18.5	17.7	14.6	19.1	42.3	0.0	11.2
% WITH CAPABILITY	100.0		25.9	47.3	50.0	65.5	50.5	10.7	0.0	100.0
56 TO 60 YEARS OLD										
ESTIMATED POPULATION	78		63	51	119	37	35	6	0	56
% STANDARD ERROR	43.8		63.3	54.2	49.8	41.6	53.3	52.2	0.0	65.6
% WITH CAPABILITY	5.4		4.3	3.5	8.2	2.6	2.4	0.4	0.0	3.9

7.5 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
OVER 60 YEARS OLD	ESTIMATED POPULATION	494	89	305	136	372	344	88	18	145
	% STANDARD ERROR	26.1	63.8	35.7	46.9	30.2	32.0	66.3	95.1	41.1
	% WITH CAPABILITY	100.0	21.2	72.4	32.2	88.2	81.6	20.8	4.3	34.4
YEAR MANUFACTURE UNK	ESTIMATED POPULATION	25,116	1,519	10,883	3,200	8,140	8,702	1,806	267	13,535
	% STANDARD ERROR	3.3	15.1	5.5	10.4	6.2	6.1	13.4	32.7	4.4
	% WITH CAPABILITY	51.7	3.1	22.4	6.6	16.8	17.9	3.7	0.5	27.9
TOTAL ALL AIRCRAFT	ESTIMATED POPULATION	192,407	8,454	69,343	31,324	129,007	127,985	20,152	5,120	28,761
	% STANDARD ERROR	0.5	6.3	1.9	3.2	1.0	0.9	3.9	5.1	2.8
	% WITH CAPABILITY	78.9	3.5	28.4	12.8	52.9	52.5	8.3	2.1	11.8

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.6 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
FIXED WING										
FIXED WING - PISTON										
1 ENG: 1-3 SEATS										
ESTIMATED POPULATION	10,933	6,491	6,993	46,320	3,944	26,630	93	189	59	29,546
% STANDARD ERROR	5.0	6.8	6.5	1.5	9.5	2.4	66.0	44.9	77.0	2.3
% WITH CAPABILITY	15.9	9.4	10.2	67.4	5.7	38.7	0.1	0.3	0.1	43.0
1 ENG: 4+ SEATS										
ESTIMATED POPULATION	77,843	76,815	75,839	20,045	8,878	92,156	759	487	127	7,622
% STANDARD ERROR	1.1	1.1	1.1	3.5	6.5	0.7	21.5	28.9	52.0	5.8
% WITH CAPABILITY	71.4	70.4	69.5	18.4	8.1	84.5	0.7	0.4	0.1	7.0
1 ENGINE: TOTAL										
ESTIMATED POPULATION	88,775	83,306	82,832	66,365	12,821	118,787	852	676	187	37,168
% STANDARD ERROR	1.1	1.1	1.2	1.5	5.3	0.8	20.4	24.3	43.1	2.2
% WITH CAPABILITY	49.9	46.9	46.6	37.3	7.2	66.8	0.5	0.4	0.1	20.9
2 ENG: 1-6 SEATS										
ESTIMATED POPULATION	13,325	13,163	13,344	473	1,124	13,018	165	183	25	491
% STANDARD ERROR	1.7	1.8	1.7	21.0	16.4	1.8	43.8	47.0	72.7	21.9
% WITH CAPABILITY	88.0	86.9	88.1	3.1	7.4	86.0	1.1	1.2	0.2	3.2
2 ENG: 7+ SEATS										
ESTIMATED POPULATION	5,253	5,277	5,355	293	463	5,229	27	21	6	358
% STANDARD ERROR	2.5	2.4	2.2	22.3	24.6	2.6	87.5	*	*	24.3
% WITH CAPABILITY	83.5	83.9	85.1	4.7	7.4	83.1	0.4	0.3	0.1	5.7
2 ENGINE: TOTAL										
ESTIMATED POPULATION	18,578	18,440	18,699	766	1,587	18,247	192	204	31	848
% STANDARD ERROR	1.4	1.4	1.3	15.5	13.7	1.5	39.6	44.0	63.8	16.3
% WITH CAPABILITY	86.7	86.0	87.2	3.6	7.4	85.1	0.9	1.0	0.1	4.0

7.6 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
PISTON: OTHER										
ESTIMATED POPULATION	34	33	37	15	0	37	0	0	0	15
% STANDARD ERROR	26.3	27.1	24.7	46.6	0.0	24.7	0.0	0.0	0.0	46.6
% WITH CAPABILITY	36.5	35.2	39.5	15.5	0.0	39.5	0.0	0.0	0.0	15.5
PISTON: TOTAL										
ESTIMATED POPULATION	107,388	101,779	101,568	67,146	14,409	137,071	1,044	880	218	38,031
% STANDARD ERROR	1.0	1.0	1.0	1.5	5.0	0.7	18.2	21.3	38.0	2.1
% WITH CAPABILITY	53.9	51.1	51.0	33.7	7.2	68.8	0.5	0.4	0.1	19.1
FIXED WING - TURBOPROP										
1 ENGINE: TOTAL										
ESTIMATED POPULATION	393	390	397	350	59	393	45	4	0	250
% STANDARD ERROR	4.8	4.7	4.7	5.3	78.5	14.6	38.8	*	0.0	11.4
% WITH CAPABILITY	51.9	51.5	52.4	46.2	7.8	51.8	6.0	0.5	0.0	33.0
2 ENG: 1-12 SEATS										
ESTIMATED POPULATION	3,557	3,570	3,547	24	301	3,402	46	21	4	36
% STANDARD ERROR	2.4	2.3	2.4	99.3	27.7	2.9	59.8	78.3	*	77.1
% WITH CAPABILITY	90.8	91.1	90.5	0.6	7.7	86.8	1.2	0.5	0.1	0.9
2 ENG: 13+ SEATS										
ESTIMATED POPULATION	435	436	436	16	34	346	95	1	61	1
% STANDARD ERROR	5.5	5.5	5.5	42.9	39.0	7.4	33.8	44.9	38.6	51.2
% WITH CAPABILITY	83.2	83.3	83.3	3.0	6.5	66.2	18.2	0.2	11.6	0.2
2 ENGINE: TOTAL										
ESTIMATED POPULATION	3,992	4,006	3,982	39	335	3,748	141	22	65	36
% STANDARD ERROR	2.2	2.1	2.2	62.0	25.2	2.8	30.0	74.7	37.5	75.5
% WITH CAPABILITY	89.9	90.2	89.7	0.9	7.5	84.4	3.2	0.5	1.5	0.8

7.6 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
TURBOPROP: OTHER										
ESTIMATED POPULATION	20	20	20	17	0	20	0	0	0	17
% STANDARD ERROR	47.4	47.4	47.4	52.3	0.0	47.4	0.0	0.0	0.0	52.3
% WITH CAPABILITY	27.9	27.9	27.9	24.2	0.0	27.9	0.0	0.0	0.0	24.2
TURBOPROP: TOTAL										
ESTIMATED POPULATION	4,405	4,416	4,399	407	394	4,160	186	26	65	304
% STANDARD ERROR	2.1	2.0	2.1	7.8	24.4	2.8	24.5	68.8	37.5	13.4
% WITH CAPABILITY	83.6	83.8	83.5	7.7	7.5	78.9	3.5	0.5	1.2	5.8
FIXED WING - TURBOJET										
2 ENGINE TURBOJET										
ESTIMATED POPULATION	3,863	3,869	3,835	53	358	3,421	475	55	388	49
% STANDARD ERROR	2.2	2.2	2.3	37.8	21.9	3.5	20.5	71.5	21.7	39.9
% WITH CAPABILITY	91.0	91.1	90.3	1.3	8.4	80.6	11.2	1.3	9.1	1.2
TURBOJET: OTHER										
ESTIMATED POPULATION	291	275	286	49	18	213	89	0	68	37
% STANDARD ERROR	3.1	3.1	3.1	13.3	45.6	10.7	24.1	0.0	29.3	15.9
% WITH CAPABILITY	67.2	63.6	66.1	11.3	4.3	49.2	20.6	0.0	15.7	8.6
TURBOJET: TOTAL										
ESTIMATED POPULATION	4,154	4,144	4,121	102	376	3,634	564	55	457	86
% STANDARD ERROR	2.0	2.0	2.2	20.7	20.9	3.3	17.7	71.5	19.0	23.6
% WITH CAPABILITY	88.8	88.6	88.1	2.2	8.0	77.7	12.0	1.2	9.8	1.8
FIXED WING: TOTAL										
ESTIMATED POPULATION	115,947	110,339	110,089	67,654	15,178	144,865	1,793	961	739	38,420
% STANDARD ERROR	0.9	0.9	0.9	1.5	4.8	0.7	12.2	20.0	16.5	2.1
% WITH CAPABILITY	55.4	52.7	52.6	32.3	7.3	69.2	0.9	0.5	0.4	18.4

7.6 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
ROTORCRAFT										
PISTON										
ESTIMATED POPULATION	139	49	50	3,125	112	1,559	28	0	0	1,608
% STANDARD ERROR	22.9	39.4	36.9	3.1	32.2	5.9	52.2	0.0	0.0	6.5
% WITH CAPABILITY	3.3	1.2	1.2	73.5	2.6	36.7	0.7	0.0	0.0	37.8
1 ENG: TURBINE										
ESTIMATED POPULATION	901	567	579	1,532	233	2,108	96	2	0	268
% STANDARD ERROR	12.4	17.8	17.1	7.7	29.5	4.3	50.3	*	0.0	22.0
% WITH CAPABILITY	31.7	19.9	20.3	53.9	8.2	74.1	3.4	0.1	0.0	9.4
MULTI-ENG: TURBINE										
ESTIMATED POPULATION	554	594	596	136	106	699	28	6	0	20
% STANDARD ERROR	5.7	5.6	5.6	22.2	27.0	3.1	47.3	85.3	0.0	36.2
% WITH CAPABILITY	69.0	74.0	74.3	16.9	13.2	87.1	3.4	0.7	0.0	2.5
TURBINE TOTAL:										
ESTIMATED POPULATION	1,455	1,161	1,175	1,668	339	2,807	123	7	0	288
% STANDARD ERROR	8.0	9.1	8.9	7.3	22.0	3.3	40.4	*	0.0	20.6
% WITH CAPABILITY	39.9	31.8	32.2	45.7	9.3	77.0	3.4	0.2	0.0	7.9
ROTORCRAFT: TOTAL										
ESTIMATED POPULATION	1,594	1,210	1,225	4,793	451	4,366	151	7	0	1,896
% STANDARD ERROR	7.6	8.9	8.7	3.2	18.4	3.0	34.4	*	0.0	6.4
% WITH CAPABILITY	20.2	15.3	15.5	60.7	5.7	55.3	1.9	0.1	0.0	24.0
OTHER AIRCRAFT										
GLIDERS:										
ESTIMATED POPULATION	39	31	20	2,217	21	187	0	8	0	2,067
% STANDARD ERROR	69.2	77.8	97.5	4.1	95.5	30.9	0.0	*	0.0	4.8
% WITH CAPABILITY	1.4	1.1	0.7	80.4	0.8	6.8	0.0	0.3	0.0	75.0

7.6 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 5 OF 5

AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
LIGHTER-THAN-AIR:										
ESTIMATED POPULATION	49	49	51	4,629	72	141	0	8	0	4,480
% STANDARD ERROR	83.5	83.5	81.8	3.4	68.4	48.6	0.0	*	0.0	3.8
% WITH CAPABILITY	0.9	0.9	0.9	84.2	1.3	2.6	0.0	0.1	0.0	81.5
EXPERIMENTAL										
HOME-BUILT:										
ESTIMATED POPULATION	967	473	525	9,713	485	3,451	0	55	41	6,918
% STANDARD ERROR	22.2	32.4	30.6	3.5	31.9	10.4	0.0	96.9	*	5.8
% WITH CAPABILITY	7.6	3.7	4.1	76.6	3.8	27.2	0.0	0.4	0.3	54.6
EXHIBITION:										
ESTIMATED POPULATION	178	115	184	1,909	55	482	3	0	0	1,639
% STANDARD ERROR	34.8	43.8	34.2	5.7	64.1	19.8	*	0.0	0.0	7.3
% WITH CAPABILITY	6.8	4.4	7.0	73.0	2.1	18.4	0.1	0.0	0.0	62.6
OTHER:										
ESTIMATED POPULATION	1,114	921	970	1,592	98	1,447	44	2	0	1,243
% STANDARD ERROR	11.4	13.1	12.6	8.4	46.5	9.2	70.0	*	0.0	10.5
% WITH CAPABILITY	33.9	28.0	29.5	48.4	3.0	44.0	1.3	0.1	0.0	37.8
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	119,888	113,138	113,064	92,508	16,361	154,939	1,992	1,040	780	56,664
% STANDARD ERROR	0.9	0.9	0.9	1.2	4.6	0.7	11.4	19.3	16.7	1.7
% WITH CAPABILITY	49.1	46.4	46.3	37.9	6.7	63.5	0.8	0.4	0.3	23.2

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.7 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

PRIMARY USE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A			MODE C		
					TRANSP	TRANSP	TRANSP	TRANSP	TRANSP	TRANSP
EXECUTIVE										
ESTIMATED POPULATION	9,582	9,554	9,529	706	886	9,586	584	126	357	112
% STANDARD ERROR	3.7	3.7	3.7	22.2	17.0	4.0	17.8	50.9	20.5	50.1
% WITH CAPABILITY	91.1	90.8	90.6	6.7	8.4	91.1	5.5	1.2	3.4	1.1
BUSINESS										
ESTIMATED POPULATION	27,287	26,812	26,924	4,591	2,326	30,185	425	217	42	1,767
% STANDARD ERROR	3.2	3.2	3.2	9.2	13.1	3.1	29.4	43.5	72.3	15.4
% WITH CAPABILITY	82.2	80.8	81.1	13.8	7.0	91.0	1.3	0.7	0.1	5.3
PERSONAL										
ESTIMATED POPULATION	58,918	54,935	54,686	56,674	7,443	85,126	443	396	88	32,242
% STANDARD ERROR	2.0	2.0	2.0	1.8	7.3	1.5	26.8	31.9	61.6	2.6
% WITH CAPABILITY	48.6	45.3	45.1	46.8	6.1	70.2	0.4	0.3	0.1	26.6
INSTRUCTIONAL										
ESTIMATED POPULATION	9,325	7,539	7,704	5,433	1,482	13,671	88	3	5	1,091
% STANDARD ERROR	6.4	7.1	7.1	8.2	17.5	5.0	45.7	*	*	18.7
% WITH CAPABILITY	61.2	49.5	50.6	35.7	9.7	89.8	0.6	0.0	0.0	7.2
AERIAL APPLICATION										
ESTIMATED POPULATION	448	272	336	5,068	114	839	2	0	0	4,621
% STANDARD ERROR	23.1	30.9	25.1	4.4	54.6	15.4	*	0.0	0.0	4.6
% WITH CAPABILITY	8.1	4.9	6.1	91.8	2.1	15.2	0.0	0.0	0.0	83.7
AERIAL OBSERVATION										
ESTIMATED POPULATION	2,607	2,231	2,397	2,178	403	4,051	68	11	7	753
% STANDARD ERROR	11.7	12.8	12.4	12.3	30.6	9.1	71.7	*	*	23.7
% WITH CAPABILITY	52.5	44.9	48.3	43.9	8.1	81.6	1.4	0.2	0.1	15.2
SIGHT SEEING										
ESTIMATED POPULATION	337	304	304	1,336	34	663	0	3	0	1,005
% STANDARD ERROR	31.4	33.8	33.2	15.2	83.6	21.5	0.0	*	0.0	17.9
% WITH CAPABILITY	20.0	18.1	18.1	79.3	2.0	39.4	0.0	0.2	0.0	59.7

7.7 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

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PRIMARY USE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
EXTERNAL LOAD										
ESTIMATED POPULATION	12	20	14	148	0	165	0	0	0	3
% STANDARD ERROR	52.9	41.5	47.4	31.6	0.0	28.6	0.0	0.0	0.0	92.0
% WITH CAPABILITY	6.9	12.0	8.1	88.0	0.0	98.4	0.0	0.0	0.0	1.6
OTHER WORK USE										
ESTIMATED POPULATION	323	320	331	795	139	819	0	0	0	281
% STANDARD ERROR	32.4	32.9	32.2	19.3	41.5	19.0	0.0	0.0	0.0	35.3
% WITH CAPABILITY	27.5	27.2	28.2	67.7	11.9	69.8	0.0	0.0	0.0	24.0
AIR TAXI										
ESTIMATED POPULATION	3,573	3,522	3,396	286	361	3,554	6	12	13	200
% STANDARD ERROR	7.9	7.9	7.9	25.8	27.7	7.9	*	76.5	97.6	35.3
% WITH CAPABILITY	90.6	89.3	86.1	7.2	9.1	90.1	0.2	0.3	0.3	5.1
OTHER										
ESTIMATED POPULATION	2,423	2,284	2,339	2,167	483	3,031	179	46	51	1,334
% STANDARD ERROR	11.3	11.8	11.6	14.0	27.8	10.6	34.7	85.0	76.9	18.3
% WITH CAPABILITY	52.0	49.0	50.2	46.5	10.4	65.0	3.8	1.0	1.1	28.6
INACTIVE										
ESTIMATED POPULATION	6,641	6,183	6,121	15,915	2,531	8,467	173	146	106	13,028
% STANDARD ERROR	5.8	6.0	6.2	2.6	10.7	5.0	32.8	37.7	36.0	3.1
% WITH CAPABILITY	28.5	26.5	26.2	68.2	10.8	36.3	0.7	0.6	0.5	55.8
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	119,888	113,138	113,064	92,508	16,361	154,939	1,992	1,040	780	56,664
% STANDARD ERROR	0.9	0.9	0.9	1.2	4.6	0.7	11.4	19.3	16.7	1.7
% WITH CAPABILITY	49.1	46.4	46.3	37.9	6.7	63.5	0.8	0.4	0.3	23.2

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.8 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

REGION	PRECISION			APPROACH		EQUIPMENT		TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP			
ALASKAN													
ESTIMATED POPULATION	1,539	1,210	1,219	5,163	639	2,898	6	3	0	3,328			
% STANDARD ERROR	13.3	14.9	14.7	7.3	22.0	10.2	*	*	0.0	9.2			
% WITH CAPABILITY	22.7	17.9	18.0	76.2	9.4	42.7	0.1	0.0	0.0	49.1			
CENTRAL													
ESTIMATED POPULATION	7,109	6,550	6,461	6,450	998	8,741	201	6	77	4,651			
% STANDARD ERROR	7.2	7.5	7.5	7.2	19.4	6.5	40.6	*	47.5	8.3			
% WITH CAPABILITY	50.4	46.4	45.8	45.7	7.1	62.0	1.4	0.0	0.5	33.0			
EASTERN													
ESTIMATED POPULATION	14,841	14,082	14,192	10,588	1,701	19,804	283	184	140	5,988			
% STANDARD ERROR	4.8	5.0	4.9	5.5	15.1	4.2	26.1	49.7	30.6	7.0			
% WITH CAPABILITY	55.8	53.0	53.4	39.8	6.4	74.5	1.1	0.7	0.5	22.5			
GREAT LAKES													
ESTIMATED POPULATION	21,237	20,220	19,867	17,379	3,756	26,381	292	219	233	11,672			
% STANDARD ERROR	4.0	4.0	4.1	4.2	10.0	3.5	27.7	40.6	30.5	5.0			
% WITH CAPABILITY	52.5	50.0	49.1	42.9	9.3	65.2	0.7	0.5	0.6	28.8			
NEW ENGLAND													
ESTIMATED POPULATION	5,311	4,926	5,067	4,733	511	6,837	92	59	72	3,200			
% STANDARD ERROR	8.5	8.8	8.7	8.6	26.6	7.4	67.2	88.1	66.0	10.4			
% WITH CAPABILITY	51.0	47.3	48.6	45.4	4.9	65.6	0.9	0.6	0.7	30.7			
NORTHWEST MOUNTAIN													
ESTIMATED POPULATION	11,244	10,447	10,189	11,873	2,055	15,702	214	10	71	7,165			
% STANDARD ERROR	5.6	5.8	5.9	5.2	13.6	4.7	34.4	*	74.9	6.6			
% WITH CAPABILITY	46.6	43.3	42.2	49.2	8.5	65.1	0.9	0.0	0.3	29.7			

7.8 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

REGION	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
SOUTHERN										
ESTIMATED POPULATION	22,074	20,953	21,122	12,414	2,942	26,821	379	225	59	7,558
% STANDARD ERROR	3.8	3.9	3.9	5.0	11.6	3.5	26.8	43.1	69.9	6.4
% WITH CAPABILITY	61.7	58.6	59.1	34.7	8.2	75.0	1.1	0.6	0.2	21.1
SOUTHWESTERN										
ESTIMATED POPULATION	15,121	14,137	14,220	11,053	1,962	19,045	273	70	33	7,188
% STANDARD ERROR	4.7	4.9	4.9	5.2	13.7	4.2	34.6	46.2	75.3	6.2
% WITH CAPABILITY	55.7	52.1	52.4	40.7	7.2	70.1	1.0	0.3	0.1	26.5
WESTERN-PACIFIC										
ESTIMATED POPULATION	21,370	20,571	20,685	12,723	1,769	28,694	251	265	95	5,785
% STANDARD ERROR	3.9	3.9	3.9	4.8	13.8	3.3	31.3	39.0	49.6	6.8
% WITH CAPABILITY	60.2	58.0	58.3	35.9	5.0	80.9	0.7	0.7	0.3	16.3
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	119,888	113,138	113,064	92,508	16,361	154,939	1,992	1,040	780	56,664
% STANDARD ERROR	0.9	0.9	0.9	1.2	4.6	0.7	11.4	19.3	16.7	1.7
% WITH CAPABILITY	49.1	46.4	46.3	37.9	6.7	63.5	0.8	0.4	0.3	23.2

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.9 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 8

STATE	PRECISION APPROACH EQUIPMENT			TRANSPONDER EQUIPMENT						
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
ALABAMA										
ESTIMATED POPULATION	2,019	2,032	1,921	1,561	290	2,540	15	0	0	979
% STANDARD ERROR	13.8	13.9	14.2	14.2	37.9	12.3	97.8	0.0	0.0	17.0
% WITH CAPABILITY	53.8	54.2	51.2	41.6	7.7	67.7	0.4	0.0	0.0	26.1
ALASKA										
ESTIMATED POPULATION	1,539	1,210	1,219	5,163	639	2,898	6	3	0	3,328
% STANDARD ERROR	13.3	14.9	14.7	7.3	22.0	10.2	*	*	0.0	9.2
% WITH CAPABILITY	22.7	17.9	18.0	76.2	9.4	42.7	0.1	0.0	0.0	49.1
ARIZONA										
ESTIMATED POPULATION	2,630	2,448	2,419	2,577	354	4,079	120	47	34	1,024
% STANDARD ERROR	11.7	12.0	12.1	11.4	33.3	9.5	58.4	85.9	*	16.1
% WITH CAPABILITY	49.2	45.8	45.3	48.3	6.6	76.4	2.2	0.9	0.6	19.2
ARKANSAS										
ESTIMATED POPULATION	1,534	1,450	1,529	1,405	180	1,817	45	0	0	1,078
% STANDARD ERROR	15.4	15.8	15.5	15.2	46.6	14.3	95.6	0.0	0.0	16.9
% WITH CAPABILITY	50.3	47.5	50.1	46.0	5.9	59.5	1.5	0.0	0.0	35.3
CALIFORNIA										
ESTIMATED POPULATION	17,135	16,454	16,625	8,959	1,239	22,104	100	214	55	4,439
% STANDARD ERROR	4.4	4.5	4.5	5.7	16.7	3.8	27.8	44.1	45.3	7.9
% WITH CAPABILITY	63.0	60.5	61.1	32.9	4.6	81.2	0.4	0.8	0.2	16.3
COLORADO										
ESTIMATED POPULATION	2,498	2,323	2,174	1,991	265	3,339	11	0	14	1,095
% STANDARD ERROR	12.4	12.9	13.2	13.4	38.5	10.7	*	0.0	*	17.7
% WITH CAPABILITY	53.8	50.0	46.8	42.9	5.7	71.9	0.2	0.0	0.3	23.6
CONNECTICUT										
ESTIMATED POPULATION	962	840	946	889	51	1,307	34	9	4	567
% STANDARD ERROR	20.1	21.2	20.0	19.6	85.3	17.0	*	*	*	24.3
% WITH CAPABILITY	49.9	43.6	49.1	46.2	2.7	67.8	1.7	0.5	0.2	29.4

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STATE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
DELAWARE										
ESTIMATED POPULATION	1,152	1,011	989	379	85	1,268	9	0	2	232
% STANDARD ERROR	17.5	18.5	18.7	26.0	65.6	16.4	*	0.0	*	31.8
% WITH CAPABILITY	73.5	64.5	63.1	24.2	5.4	80.9	0.6	0.0	0.1	14.8
DISTRICT OF COLUMBIA										
ESTIMATED POPULATION	24	24	24	5	5	26	5	0	0	3
% STANDARD ERROR	*	*	*	*	*	*	*	0.0	0.0	*
% WITH CAPABILITY	83.3	83.3	83.3	16.7	16.5	88.9	16.5	0.0	0.0	11.1
FLORIDA										
ESTIMATED POPULATION	8,145	7,664	7,859	3,329	1,028	9,976	199	84	4	1,526
% STANDARD ERROR	6.5	6.7	6.6	9.8	19.7	5.8	34.0	77.2	*	14.7
% WITH CAPABILITY	68.9	64.8	66.5	28.2	8.7	84.4	1.7	0.7	0.0	12.9
GEORGIA										
ESTIMATED POPULATION	2,756	2,502	2,592	1,585	519	3,346	17	4	3	905
% STANDARD ERROR	11.5	12.0	11.9	14.9	27.8	10.6	*	*	*	18.5
% WITH CAPABILITY	61.9	56.2	58.2	35.6	11.6	75.1	0.4	0.1	0.1	20.3
HAWAII										
ESTIMATED POPULATION	267	252	257	272	77	477	2	0	7	61
% STANDARD ERROR	32.4	33.3	32.7	30.9	55.4	23.8	*	0.0	*	62.7
% WITH CAPABILITY	48.8	46.0	47.0	49.8	14.0	87.3	0.3	0.0	1.3	11.2
IDAHO										
ESTIMATED POPULATION	944	870	764	1,302	226	1,380	11	8	4	828
% STANDARD ERROR	19.1	20.0	21.6	15.9	43.7	16.0	*	*	*	18.9
% WITH CAPABILITY	40.8	37.6	33.0	56.2	9.8	59.6	0.5	0.4	0.2	35.8
ILLINOIS										
ESTIMATED POPULATION	4,738	4,387	4,166	2,417	606	5,473	102	0	133	1,610
% STANDARD ERROR	8.9	9.2	9.4	12.1	23.7	8.3	46.9	0.0	41.5	14.4
% WITH CAPABILITY	64.9	60.1	57.1	33.1	8.3	75.0	1.4	0.0	1.8	22.1

7.9 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
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STATE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A		MODE C		MODE S	
					TRANSP		TRANSP		TRANSP	
INDIANA										
ESTIMATED POPULATION	2,612	2,384	2,571	1,679	411		3,051		35	
% STANDARD ERROR	12.0	12.3	11.9	14.1	30.7		11.0		*	
% WITH CAPABILITY	57.2	52.2	56.3	36.8	9.0		66.8		0.8	
IOWA										
ESTIMATED POPULATION	1,569	1,548	1,412	1,417	140		1,998		13	
% STANDARD ERROR	15.6	15.8	16.4	15.5	50.2		13.8		92.7	
% WITH CAPABILITY	50.3	49.6	45.2	45.4	4.5		64.0		0.4	
KANSAS										
ESTIMATED POPULATION	2,379	2,169	2,129	1,254	394		2,484		63	
% STANDARD ERROR	12.7	13.3	13.3	16.2	32.7		12.4		73.9	
% WITH CAPABILITY	63.1	57.5	56.5	33.3	10.4		65.9		1.7	
KENTUCKY										
ESTIMATED POPULATION	1,088	1,082	1,079	1,168	55		1,284		0	
% STANDARD ERROR	18.9	18.9	19.0	18.1	84.0		17.2		0.0	
% WITH CAPABILITY	46.5	46.2	46.1	49.9	2.4		54.9		0.0	
LOUISIANA										
ESTIMATED POPULATION	1,527	1,374	1,456	1,302	268		1,951		31	
% STANDARD ERROR	15.6	16.4	16.1	15.4	34.0		13.6		*	
% WITH CAPABILITY	52.3	47.0	49.9	44.6	9.2		66.8		1.1	
MAINE										
ESTIMATED POPULATION	636	510	510	640	63		828		3	
% STANDARD ERROR	24.9	27.4	27.9	24.0	69.5		21.7		*	
% WITH CAPABILITY	48.1	38.6	38.6	48.5	4.8		62.7		0.2	
MARYLAND										
ESTIMATED POPULATION	1,499	1,490	1,560	1,268	324		2,198		14	
% STANDARD ERROR	15.7	15.6	15.4	15.9	33.5		12.8		*	
% WITH CAPABILITY	50.3	50.1	52.4	42.6	10.9		73.8		0.5	

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STATE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
MASSACHUSETTS										
ESTIMATED POPULATION	2,188	2,149	2,184	907	107	2,716	43	48	65	450
% STANDARD ERROR	13.5	13.8	13.6	19.9	60.4	12.2	99.9	*	70.4	27.6
% WITH CAPABILITY	67.6	66.4	67.5	28.0	3.3	83.9	1.3	1.5	2.0	13.9
MICHIGAN										
ESTIMATED POPULATION	3,836	3,605	3,929	2,793	750	4,924	58	40	62	1,643
% STANDARD ERROR	9.8	10.2	9.8	11.3	22.9	8.7	72.1	*	68.1	14.1
% WITH CAPABILITY	54.1	50.8	55.4	39.4	10.6	69.4	0.8	0.6	0.9	23.2
MINNESOTA										
ESTIMATED POPULATION	2,637	2,528	2,219	3,247	801	3,265	61	2	28	2,241
% STANDARD ERROR	11.9	12.1	12.8	9.9	22.4	10.5	52.4	*	53.7	11.9
% WITH CAPABILITY	42.6	40.8	35.8	52.4	12.9	52.7	1.0	0.0	0.5	36.2
MISSISSIPPI										
ESTIMATED POPULATION	966	995	930	908	91	1,297	0	0	0	682
% STANDARD ERROR	19.2	19.3	19.8	18.6	63.5	17.0	0.0	0.0	0.0	20.4
% WITH CAPABILITY	48.2	49.6	46.4	45.3	4.5	64.6	0.0	0.0	0.0	34.0
MISSOURI										
ESTIMATED POPULATION	2,248	2,018	2,020	2,296	301	3,142	71	0	36	1,386
% STANDARD ERROR	12.9	13.6	13.6	12.8	35.4	11.1	72.6	0.0	80.9	16.1
% WITH CAPABILITY	47.8	42.9	43.0	48.8	6.4	66.8	1.5	0.0	0.8	29.5
MONTANA										
ESTIMATED POPULATION	973	855	934	1,118	276	1,373	0	0	0	712
% STANDARD ERROR	19.3	20.7	20.1	18.3	40.9	16.7	0.0	0.0	0.0	21.8
% WITH CAPABILITY	43.1	37.8	41.4	49.5	12.2	60.8	0.0	0.0	0.0	31.5
NEBRASKA										
ESTIMATED POPULATION	913	815	899	1,483	164	1,117	54	5	8	1,210
% STANDARD ERROR	20.1	21.0	20.4	14.6	42.3	18.3	76.7	*	*	16.0
% WITH CAPABILITY	36.3	32.4	35.7	59.0	6.5	44.4	2.2	0.2	0.3	48.1

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STATE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
NEVADA										
ESTIMATED POPULATION	1,311	1,388	1,355	859	53	2,004	29	4	0	251
% STANDARD ERROR	16.2	15.9	16.1	18.2	46.8	13.0	71.2	*	0.0	31.9
% WITH CAPABILITY	56.9	60.3	58.8	37.3	2.3	87.0	1.2	0.2	0.0	10.9
NEW HAMPSHIRE										
ESTIMATED POPULATION	861	826	754	1,114	139	1,067	5	2	3	852
% STANDARD ERROR	21.0	21.6	22.0	17.4	48.5	18.3	*	*	*	20.1
% WITH CAPABILITY	42.7	40.9	37.4	55.2	6.9	52.9	0.2	0.1	0.1	42.2
NEW JERSEY										
ESTIMATED POPULATION	2,483	2,445	2,342	1,206	214	3,194	7	18	0	527
% STANDARD ERROR	12.2	12.5	12.6	17.3	46.2	10.9	*	*	0.0	24.8
% WITH CAPABILITY	65.7	64.7	62.0	31.9	5.7	84.6	0.2	0.5	0.0	14.0
NEW MEXICO										
ESTIMATED POPULATION	1,285	1,204	1,198	1,278	286	1,415	8	6	18	1,019
% STANDARD ERROR	16.9	17.4	17.3	15.5	37.3	16.0	*	*	*	17.0
% WITH CAPABILITY	49.4	46.3	46.1	49.2	11.0	54.4	0.3	0.2	0.7	39.2
NEW YORK										
ESTIMATED POPULATION	3,390	3,179	3,201	2,890	391	4,853	201	55	87	1,539
% STANDARD ERROR	10.6	10.8	10.8	11.1	31.5	9.0	31.2	91.7	32.2	14.5
% WITH CAPABILITY	51.2	48.0	48.3	43.6	5.9	73.3	3.0	0.8	1.3	23.2
NORTH CAROLINA										
ESTIMATED POPULATION	2,837	2,486	2,616	1,414	368	3,246	87	42	9	881
% STANDARD ERROR	11.8	12.6	12.2	15.8	34.6	11.0	60.4	97.6	100.0	19.4
% WITH CAPABILITY	64.4	56.5	59.4	32.1	8.4	73.7	2.0	1.0	0.2	20.0
NORTH DAKOTA										
ESTIMATED POPULATION	581	647	597	1,467	176	794	7	1	6	1,191
% STANDARD ERROR	25.5	24.5	25.5	15.4	51.3	22.1	*	*	*	16.6
% WITH CAPABILITY	27.1	30.2	27.9	68.5	8.2	37.1	0.3	0.1	0.3	55.6

7.9 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
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STATE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
OHIO										
ESTIMATED POPULATION	4,233	3,927	3,800	2,231	537	5,010	28	31	0	1,422
% STANDARD ERROR	9.4	9.7	9.8	12.7	25.4	8.7	58.4	91.1	0.0	15.5
% WITH CAPABILITY	63.8	59.2	57.3	33.6	8.1	75.6	0.4	0.5	0.0	21.5
OKLAHOMA										
ESTIMATED POPULATION	2,221	1,948	1,947	1,648	471	2,942	72	12	1	876
% STANDARD ERROR	13.0	13.7	13.8	14.9	28.9	11.3	73.1	78.5	63.7	20.1
% WITH CAPABILITY	55.2	48.4	48.4	41.0	11.7	73.1	1.8	0.3	0.0	21.8
OREGON										
ESTIMATED POPULATION	2,360	2,428	2,372	2,358	497	3,113	94	1	2	1,565
% STANDARD ERROR	12.3	12.2	12.3	12.2	26.9	10.7	59.9	*	*	15.1
% WITH CAPABILITY	47.5	48.9	47.7	47.5	10.0	62.7	1.9	0.0	0.0	31.5
PENNSYLVANIA										
ESTIMATED POPULATION	3,640	3,394	3,421	2,282	371	4,718	0	87	18	1,302
% STANDARD ERROR	10.3	10.7	10.7	12.0	33.3	9.0	0.0	73.2	86.9	15.0
% WITH CAPABILITY	59.1	55.1	55.6	37.1	6.0	76.6	0.0	1.4	0.3	21.1
RHODE ISLAND										
ESTIMATED POPULATION	385	376	406	450	126	508	6	0	0	248
% STANDARD ERROR	32.0	32.3	31.0	31.9	57.4	28.6	*	0.0	0.0	42.8
% WITH CAPABILITY	43.9	42.8	46.3	51.2	14.4	57.9	0.7	0.0	0.0	28.2
SOUTH CAROLINA										
ESTIMATED POPULATION	1,213	1,226	1,183	990	201	1,542	25	19	0	728
% STANDARD ERROR	18.0	18.0	18.2	18.1	45.3	15.7	*	*	0.0	21.2
% WITH CAPABILITY	52.1	52.7	50.8	42.5	8.6	66.2	1.1	0.8	0.0	31.3
SOUTH DAKOTA										
ESTIMATED POPULATION	455	537	487	1,300	146	638	0	97	1	1,026
% STANDARD ERROR	28.3	26.8	27.7	15.6	50.1	24.2	0.0	63.5	*	17.2
% WITH CAPABILITY	24.7	29.1	26.4	70.5	7.9	34.6	0.0	5.3	0.1	55.7

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STATE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A		MODE C		MODE S	
					TRANSP		TRANSP		TRANSP	
TENNESSEE	ESTIMATED POPULATION	2,382	2,319	2,279	1,039	265	2,770	7	54	38
	% STANDARD ERROR	12.7	13.0	13.0	18.9	38.4	11.9	*	79.7	*
	% WITH CAPABILITY	66.7	64.9	63.8	29.1	7.4	77.5	0.2	1.5	1.1
TEXAS	ESTIMATED POPULATION	8,554	8,162	8,090	5,419	757	10,920	117	51	15
	% STANDARD ERROR	6.5	6.6	6.7	7.6	22.0	5.7	48.5	55.6	81.3
	% WITH CAPABILITY	58.7	56.0	55.6	37.2	5.2	75.0	0.8	0.3	0.1
UTAH	ESTIMATED POPULATION	784	697	755	1,176	221	1,275	38	1	51
	% STANDARD ERROR	21.4	22.5	22.0	18.0	41.7	17.1	84.4	63.7	95.1
	% WITH CAPABILITY	37.4	33.2	36.0	56.1	10.5	60.8	1.8	0.0	2.4
VERMONT	ESTIMATED POPULATION	279	226	266	733	24	411	1	0	0
	% STANDARD ERROR	36.8	41.1	37.8	21.0	*	29.9	*	0.0	0.0
	% WITH CAPABILITY	27.0	21.8	25.7	70.8	2.3	39.7	0.1	0.0	0.0
VIRGINIA	ESTIMATED POPULATION	1,989	1,847	1,935	1,735	274	2,726	45	0	32
	% STANDARD ERROR	13.6	14.0	13.8	13.4	36.4	11.8	64.5	0.0	85.1
	% WITH CAPABILITY	51.2	47.5	49.8	44.6	7.0	70.1	1.2	0.0	0.8
WASHINGTON	ESTIMATED POPULATION	3,387	2,967	2,899	2,994	518	4,572	55	0	0
	% STANDARD ERROR	10.6	11.6	11.7	10.5	25.5	9.1	43.8	0.0	0.0
	% WITH CAPABILITY	51.5	45.1	44.0	45.5	7.9	69.5	0.8	0.0	0.0
WEST VIRGINIA	ESTIMATED POPULATION	664	692	720	824	38	820	2	24	0
	% STANDARD ERROR	25.2	24.7	24.2	21.6	80.1	22.3	*	*	0.0
	% WITH CAPABILITY	42.4	44.2	46.0	52.6	2.4	52.4	0.1	1.5	0.0

7.9 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
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STATE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
WISCONSIN										
ESTIMATED POPULATION	2,145	2,204	2,100	2,246	329	3,226	2	0	2	1,356
% STANDARD ERROR	13.4	13.3	13.6	12.5	32.4	11.1	*	0.0	*	15.4
% WITH CAPABILITY	45.6	46.9	44.7	47.8	7.0	68.6	0.0	0.0	0.0	28.9
WYOMING										
ESTIMATED POPULATION	299	307	290	934	53	650	5	0	0	583
% STANDARD ERROR	33.2	32.7	34.0	19.9	83.3	24.4	*	0.0	0.0	23.7
% WITH CAPABILITY	23.8	24.5	23.1	74.6	4.2	51.9	0.4	0.0	0.0	46.6
PUERTO RICO										
ESTIMATED POPULATION	590	568	586	402	126	742	29	4	0	216
% STANDARD ERROR	25.6	26.0	25.6	32.6	56.2	22.8	*	*	0.0	44.8
% WITH CAPABILITY	59.1	56.9	58.7	40.2	12.6	74.3	2.9	0.4	0.0	21.7
OTHER U.S. TERRITORIES										
ESTIMATED POPULATION	106	107	106	73	47	107	0	0	0	27
% STANDARD ERROR	46.3	45.9	46.2	49.8	59.8	47.1	0.0	0.0	0.0	78.4
% WITH CAPABILITY	58.8	59.4	58.7	40.6	25.8	59.3	0.0	0.0	0.0	14.8
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	119,888	113,138	113,064	92,508	16,361	154,939	1,992	1,040	780	56,664
% STANDARD ERROR	0.9	0.9	0.9	1.2	4.6	0.7	11.4	19.3	16.7	1.7
% WITH CAPABILITY	49.1	46.4	46.3	37.9	6.7	63.5	0.8	0.4	0.3	23.2

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.10 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AGE OF AIRCRAFT
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AGE OF AIRCRAFT	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
1 TO 5 YEARS OLD										
ESTIMATED POPULATION	4,309	3,664	3,829	5,942	489	5,837	628	52	181	3,796
% STANDARD ERROR	7.6	8.0	8.0	6.7	27.2	6.7	17.8	78.1	30.8	8.6
% WITH CAPABILITY	9.8	8.4	8.7	13.5	1.1	13.3	1.4	0.1	0.4	8.7
6 TO 10 YEARS OLD										
ESTIMATED POPULATION	4,888	4,818	4,862	3,617	375	5,769	237	59	189	2,491
% STANDARD ERROR	7.0	7.1	7.0	9.4	28.2	6.7	31.2	71.9	35.3	11.5
% WITH CAPABILITY	13.4	13.2	13.3	9.9	1.0	15.8	0.6	0.2	0.5	6.8
11 TO 15 YEARS OLD										
ESTIMATED POPULATION	20,341	19,122	19,015	5,295	1,567	22,845	327	134	162	2,524
% STANDARD ERROR	3.9	4.0	4.0	7.9	15.3	3.7	31.8	52.1	33.4	10.8
% WITH CAPABILITY	53.6	50.4	50.1	14.0	4.1	60.2	0.9	0.4	0.4	6.7
16 TO 20 YEARS OLD										
ESTIMATED POPULATION	29,388	27,872	28,421	9,933	2,996	35,349	282	331	55	4,334
% STANDARD ERROR	3.2	3.2	3.2	5.6	11.4	2.9	33.0	37.4	65.4	8.0
% WITH CAPABILITY	99.2	94.1	96.0	33.5	10.1	100.0	1.0	1.1	0.2	14.6
21 TO 25 YEARS OLD										
ESTIMATED POPULATION	15,594	15,615	15,282	6,402	1,822	19,807	57	93	2	2,708
% STANDARD ERROR	4.7	4.7	4.8	7.5	14.4	4.2	78.1	66.1	*	11.5
% WITH CAPABILITY	63.3	63.4	62.0	26.0	7.4	80.4	0.2	0.4	0.0	11.0
26 TO 30 YEARS OLD										
ESTIMATED POPULATION	19,076	18,033	17,737	8,688	2,617	25,074	122	71	20	3,449
% STANDARD ERROR	4.2	4.3	4.3	6.4	12.6	3.6	57.2	67.0	70.2	10.1
% WITH CAPABILITY	100.0	100.0	100.0	100.0	47.9	100.0	2.2	1.3	0.4	63.2

7.10 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
31 TO 35 YEARS OLD										
ESTIMATED POPULATION	9,631	9,537	9,512	5,013	1,263	13,425	54	26	0	1,670
% STANDARD ERROR	5.7	5.7	5.7	8.4	17.3	4.9	79.7	55.6	0.0	14.1
% WITH CAPABILITY	100.0	100.0	100.0	100.0	34.3	100.0	1.5	0.7	0.0	45.4
36 TO 40 YEARS OLD										
ESTIMATED POPULATION	4,855	4,191	4,298	4,383	1,032	7,572	41	2	2	1,467
% STANDARD ERROR	8.4	9.0	8.9	9.0	19.3	6.6	91.4	*	*	16.1
% WITH CAPABILITY	100.0	98.3	100.0	100.0	24.2	100.0	1.0	0.0	0.0	34.4
41 TO 45 YEARS OLD										
ESTIMATED POPULATION	1,972	1,792	1,546	2,715	312	3,383	6	4	2	1,509
% STANDARD ERROR	11.9	13.0	13.7	9.6	31.7	8.4	*	*	*	14.0
% WITH CAPABILITY	100.0	100.0	100.0	100.0	20.5	100.0	0.4	0.3	0.2	99.0
46 TO 50 YEARS OLD										
ESTIMATED POPULATION	1,857	1,357	1,491	10,092	449	4,247	68	2	17	7,542
% STANDARD ERROR	10.9	13.1	12.6	4.4	25.2	7.1	47.9	*	*	5.4
% WITH CAPABILITY	38.2	27.9	30.7	100.0	9.2	87.4	1.4	0.0	0.3	100.0
51 TO 55 YEARS OLD										
ESTIMATED POPULATION	405	310	398	2,834	69	1,060	1	2	0	2,286
% STANDARD ERROR	21.7	25.1	23.7	7.4	34.2	12.6	*	*	0.0	8.5
% WITH CAPABILITY	33.6	25.7	33.0	100.0	5.7	87.8	0.1	0.2	0.0	100.0
56 TO 60 YEARS OLD										
ESTIMATED POPULATION	22	23	23	291	4	46	3	0	0	265
% STANDARD ERROR	72.1	68.2	68.2	28.8	*	45.7	*	0.0	0.0	31.1
% WITH CAPABILITY	1.5	1.6	1.6	20.0	0.3	3.2	0.2	0.0	0.0	18.3

7.10 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	PRECISION APPROACH EQUIPMENT			TRANSPONDER EQUIPMENT						
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
OVER 60 YEARS OLD										
ESTIMATED POPULATION	361	323	243	479	48	423	24	16	0	367
% STANDARD ERROR	30.6	33.7	38.1	26.0	63.3	29.4	73.8	*	0.0	29.2
% WITH CAPABILITY	85.7	76.7	57.8	100.0	11.3	100.0	5.6	3.8	0.0	87.0
YEAR MANUFACTURE UNK										
ESTIMATED POPULATION	7,189	6,481	6,408	26,822	3,318	10,103	143	248	151	22,255
% STANDARD ERROR	6.8	7.0	7.1	3.1	10.2	5.7	44.4	40.2	49.3	3.4
% WITH CAPABILITY	14.8	13.3	13.2	55.2	6.8	20.8	0.3	0.5	0.3	45.8
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	119,888	113,138	113,064	92,508	16,361	154,939	1,992	1,040	780	56,664
% STANDARD ERROR	0.9	0.9	0.9	1.2	4.6	0.7	11.4	19.3	16.7	1.7
% WITH CAPABILITY	49.1	46.4	46.3	37.9	6.7	63.5	0.8	0.4	0.3	23.2

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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BASIC NAVIGATION EQUIPMENT

AIRCRAFT TYPE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
FIXED WING								
FIXED WING - PISTON								
1 ENG: 1-3 SEATS								
ESTIMATED POPULATION	2,651	13,831	4,182	16,356	7,992	5,944	1,881	502
% STANDARD ERROR	11.7	4.4	8.9	3.8	6.0	7.2	13.4	26.3
% WITH CAPABILITY	3.9	20.1	6.1	23.8	11.6	8.6	2.7	0.7
1 ENG: 4+ SEATS								
ESTIMATED POPULATION	4,214	27,794	12,377	67,295	81,188	74,449	47,779	12,276
% STANDARD ERROR	9.6	3.3	5.4	1.5	1.0	1.2	2.0	4.9
% WITH CAPABILITY	3.9	25.5	11.3	61.7	74.4	68.3	43.8	11.3
1 ENGINE: TOTAL								
ESTIMATED POPULATION	6,865	41,625	16,559	83,651	89,180	80,393	49,660	12,778
% STANDARD ERROR	7.4	2.6	4.6	1.4	1.0	1.2	1.9	4.8
% WITH CAPABILITY	3.9	23.4	9.3	47.1	50.2	45.2	27.9	7.2
2 ENG: 1-6 SEATS								
ESTIMATED POPULATION	641	2,835	1,276	10,466	13,188	12,686	11,537	5,744
% STANDARD ERROR	21.6	9.8	15.8	3.1	1.7	2.0	2.6	5.4
% WITH CAPABILITY	4.2	18.7	8.4	69.1	87.1	83.8	76.2	37.9
2 ENG: 7+ SEATS								
ESTIMATED POPULATION	220	1,246	433	4,024	5,038	5,099	4,998	3,066
% STANDARD ERROR	38.9	12.9	24.6	4.8	2.6	2.8	2.6	6.0
% WITH CAPABILITY	3.5	19.8	6.9	64.0	80.1	81.0	79.4	48.7
2 ENGINE: TOTAL								
ESTIMATED POPULATION	862	4,082	1,709	14,490	18,226	17,784	16,535	8,810
% STANDARD ERROR	18.9	7.9	13.3	2.6	1.4	1.7	2.0	4.1
% WITH CAPABILITY	4.0	19.0	8.0	67.6	85.0	83.0	77.1	41.1

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	LONG RANGE NAVIGATION EQUIPMENT						OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR	OMEGA		
FIXED WING							
FIXED WING - PISTON							
1 ENG: 1-3 SEATS							
ESTIMATED POPULATION	465	10,892	486	114	62	26	
% STANDARD ERROR	26.4	5.1	27.9	54.5	89.3	*	
% WITH CAPABILITY	0.7	15.8	0.7	0.2	0.1	0.0	
1 ENG: 4+ SEATS							
ESTIMATED POPULATION	6,297	47,653	6,054	1,246	58	265	
% STANDARD ERROR	7.7	2.2	7.8	17.4	76.8	41.8	
% WITH CAPABILITY	5.8	43.7	5.6	1.1	0.1	0.2	
1 ENGINE: TOTAL							
ESTIMATED POPULATION	6,761	58,545	6,541	1,361	120	291	
% STANDARD ERROR	7.4	2.0	7.5	16.6	59.2	39.2	
% WITH CAPABILITY	3.8	32.9	3.7	0.8	0.1	0.2	
2 ENG: 1-6 SEATS							
ESTIMATED POPULATION	1,579	6,703	1,945	253	46	36	
% STANDARD ERROR	13.4	5.3	12.3	32.5	71.8	95.8	
% WITH CAPABILITY	10.4	44.3	12.8	1.7	0.3	0.2	
2 ENG: 7+ SEATS							
ESTIMATED POPULATION	781	2,636	659	130	2	5	
% STANDARD ERROR	17.7	7.9	20.6	52.6	*	*	
% WITH CAPABILITY	12.4	41.9	10.5	2.1	0.0	0.1	
2 ENGINE: TOTAL							
ESTIMATED POPULATION	2,360	9,339	2,604	383	47	41	
% STANDARD ERROR	10.7	4.4	10.6	27.9	70.6	88.4	
% WITH CAPABILITY	11.0	43.6	12.1	1.8	0.2	0.2	

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
FIXED WING						
FIXED WING - PISTON						
1 ENG: 1-3 SEATS						
ESTIMATED POPULATION	190	9	58	701	3,871	40,681
% STANDARD ERROR	47.0	*	60.7	19.3	9.1	1.8
% WITH CAPABILITY	0.3	0.0	0.1	1.0	5.6	59.2
1 ENG: 4+ SEATS						
ESTIMATED POPULATION	3,004	1,728	11,831	338	14,847	13,402
% STANDARD ERROR	10.9	14.2	5.0	29.6	4.7	4.5
% WITH CAPABILITY	2.8	1.6	10.8	0.3	13.6	12.3
1 ENGINE: TOTAL						
ESTIMATED POPULATION	3,195	1,737	11,889	1,039	18,718	54,083
% STANDARD ERROR	10.6	14.1	5.0	16.2	4.2	1.8
% WITH CAPABILITY	1.8	1.0	6.7	0.6	10.5	30.4
2 ENG: 1-6 SEATS						
ESTIMATED POPULATION	2,448	4,454	3,513	448	2,901	501
% STANDARD ERROR	9.6	6.1	8.2	25.2	9.6	21.7
% WITH CAPABILITY	16.2	29.4	23.2	3.0	19.2	3.3
2 ENG: 7+ SEATS						
ESTIMATED POPULATION	1,502	3,448	1,333	299	1,309	295
% STANDARD ERROR	10.4	5.2	13.0	31.1	13.4	23.6
% WITH CAPABILITY	23.9	54.8	21.2	4.8	20.8	4.7
2 ENGINE: TOTAL						
ESTIMATED POPULATION	3,949	7,902	4,846	747	4,210	796
% STANDARD ERROR	7.2	4.1	6.9	19.6	7.8	16.2
% WITH CAPABILITY	18.4	36.9	22.6	3.5	19.6	3.7

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	BASIC NAVIGATION EQUIPMENT									
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV		
PISTON: OTHER										
ESTIMATED POPULATION	3	1	3	30	17	32	14	0		
% STANDARD ERROR	*	*	*	29.0	42.7	28.0	47.1	0.0		
% WITH CAPABILITY	2.7	1.6	3.0	32.2	17.9	33.6	15.2	0.0		
PISTON: TOTAL										
ESTIMATED POPULATION	7,729	45,708	18,271	98,171	107,422	98,209	66,209	21,588		
% STANDARD ERROR	6.9	2.5	4.4	1.3	0.9	1.0	1.5	3.3		
% WITH CAPABILITY	3.9	22.9	9.2	49.3	53.9	49.3	33.2	10.8		
FIXED WING - TURBOPROP										
1 ENGINE: TOTAL										
ESTIMATED POPULATION	9	5	8	447	434	392	392	57		
% STANDARD ERROR	*	*	*	7.0	6.7	4.6	4.9	45.8		
% WITH CAPABILITY	1.2	0.7	1.0	59.0	57.2	51.7	51.7	7.6		
2 ENG: 1-12 SEATS										
ESTIMATED POPULATION	114	421	236	2,903	3,567	3,517	3,562	2,642		
% STANDARD ERROR	42.4	23.5	28.3	4.6	2.3	2.5	2.3	5.4		
% WITH CAPABILITY	2.9	10.7	6.0	74.1	91.0	89.8	90.9	67.4		
2 ENG: 13+ SEATS										
ESTIMATED POPULATION	17	46	10	385	443	434	441	95		
% STANDARD ERROR	43.7	26.3	29.6	8.1	5.3	5.5	5.4	34.7		
% WITH CAPABILITY	3.3	8.8	1.8	73.6	84.8	83.0	84.3	18.1		
2 ENGINE: TOTAL										
ESTIMATED POPULATION	131	467	245	3,288	4,010	3,951	4,003	2,737		
% STANDARD ERROR	37.2	21.3	27.2	4.2	2.1	2.3	2.1	5.3		
% WITH CAPABILITY	3.0	10.5	5.5	74.0	90.3	89.0	90.1	61.6		

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	LONG RANGE NAVIGATION EQUIPMENT						
	LORAN-----			-----		OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR			
PISTON: OTHER							
ESTIMATED POPULATION	0	13	1	0	1	1	1
% STANDARD ERROR	0.0	49.3	*	0.0	*	*	*
% WITH CAPABILITY	0.0	14.1	1.6	0.0	1.6	1.6	1.6
PISTON: TOTAL							
ESTIMATED POPULATION	9,121	67,898	9,146	1,744	169	333	333
% STANDARD ERROR	6.2	1.8	6.2	14.3	46.5	35.9	35.9
% WITH CAPABILITY	4.6	34.1	4.6	0.9	0.1	0.2	0.2
FIXED WING - TURBOPROP							
1 ENGINE: TOTAL							
ESTIMATED POPULATION	15	87	43	10	0	1	1
% STANDARD ERROR	93.3	33.0	47.1	*	0.0	*	*
% WITH CAPABILITY	2.0	11.5	5.7	1.3	0.0	0.2	0.2
2 ENG: 1-12 SEATS							
ESTIMATED POPULATION	1,348	1,306	941	263	273	27	27
% STANDARD ERROR	10.5	10.7	13.8	28.5	24.1	79.0	79.0
% WITH CAPABILITY	34.4	33.3	24.0	6.7	7.0	0.7	0.7
2 ENG: 13+ SEATS							
ESTIMATED POPULATION	201	155	-39	80	193	48	48
% STANDARD ERROR	17.5	22.3	637.2	38.5	19.5	43.4	43.4
% WITH CAPABILITY	38.5	29.7	-7.6	15.3	36.9	9.1	9.1
2 ENGINE: TOTAL							
ESTIMATED POPULATION	1,549	1,461	902	343	466	74	74
% STANDARD ERROR	9.4	9.9	14.7	23.6	16.2	39.8	39.8
% WITH CAPABILITY	34.9	32.9	20.3	7.7	10.5	1.7	1.7

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
PISTON: OTHER						
ESTIMATED POPULATION	4	4	0	1	1	13
% STANDARD ERROR	94.5	91.3	0.0	*	*	50.1
% WITH CAPABILITY	4.3	4.6	0.0	1.6	1.6	13.7
PISTON: TOTAL						
ESTIMATED POPULATION	7,148	9,643	16,735	1,787	22,930	54,892
% STANDARD ERROR	6.2	4.2	4.1	12.5	3.7	1.7
% WITH CAPABILITY	3.6	4.8	8.4	0.9	11.5	27.5
FIXED WING - TURBOPROP						
1 ENGINE: TOTAL						
ESTIMATED POPULATION	79	285	69	10	68	265
% STANDARD ERROR	62.0	7.0	36.5	*	42.2	8.5
% WITH CAPABILITY	10.4	37.5	9.1	1.3	9.0	35.0
2 ENG: 1-12 SEATS						
ESTIMATED POPULATION	3,006	3,437	994	307	1,045	25
% STANDARD ERROR	3.8	2.7	13.4	28.5	12.3	94.9
% WITH CAPABILITY	76.7	87.7	25.4	7.8	26.7	0.6
2 ENG: 13+ SEATS						
ESTIMATED POPULATION	361	408	198	135	34	6
% STANDARD ERROR	6.8	6.1	16.7	24.5	98.3	49.9
% WITH CAPABILITY	69.0	78.0	37.8	25.9	6.5	1.1
2 ENGINE: TOTAL						
ESTIMATED POPULATION	3,367	3,845	1,192	442	1,079	31
% STANDARD ERROR	3.5	2.5	11.5	21.1	12.3	77.1
% WITH CAPABILITY	75.8	86.6	26.8	10.0	24.3	0.7

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
TURBOPROP: OTHER								
ESTIMATED POPULATION	0	0	0	20	17	20	20	0
% STANDARD ERROR	0.0	0.0	0.0	47.4	52.8	47.4	47.4	0.0
% WITH CAPABILITY	0.0	0.0	0.0	27.9	23.8	27.9	27.9	0.0
TURBOPROP: TOTAL								
ESTIMATED POPULATION	140	472	253	3,755	4,461	4,363	4,415	2,795
% STANDARD ERROR	35.5	21.1	26.7	3.8	2.0	2.1	2.0	5.3
% WITH CAPABILITY	2.7	9.0	4.8	71.2	84.6	82.8	83.8	53.0
FIXED WING - TURBOJET								
2 ENGINE TURBOJET								
ESTIMATED POPULATION	123	281	154	3,442	3,802	3,822	3,859	2,095
% STANDARD ERROR	42.0	25.3	26.7	3.3	2.4	2.2	2.2	6.9
% WITH CAPABILITY	2.9	6.6	3.6	81.0	89.5	90.0	90.9	49.3
TURBOJET: OTHER								
ESTIMATED POPULATION	2	8	45	247	258	269	274	162
% STANDARD ERROR	86.1	58.6	39.4	7.6	2.9	3.4	3.1	12.9
% WITH CAPABILITY	0.4	1.8	10.4	57.1	59.7	62.3	63.3	37.6
TURBOJET: TOTAL								
ESTIMATED POPULATION	125	289	199	3,689	4,060	4,091	4,132	2,257
% STANDARD ERROR	41.5	24.6	22.5	3.1	2.2	2.1	2.1	6.5
% WITH CAPABILITY	2.7	6.2	4.2	78.8	86.8	87.4	88.3	48.2
FIXED WING: TOTAL								
ESTIMATED POPULATION	7,994	46,469	18,723	105,615	115,944	106,663	74,757	26,640
% STANDARD ERROR	6.7	2.5	4.3	1.2	0.8	1.0	1.4	2.8
% WITH CAPABILITY	3.8	22.2	8.9	50.5	55.4	51.0	35.7	12.7

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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LONG RANGE NAVIGATION EQUIPMENT

AIRCRAFT TYPE	LORAN						OMEGA	OTHER LRNAV
	L	R NAV	VFR ONLY	IFR NAV	APP	IFR		
-----LORAN-----								
TURBOPROP: OTHER	3		0	3		0	6	3
ESTIMATED POPULATION	*		0.0	*		0.0	98.1	*
% STANDARD ERROR							8.3	
% WITH CAPABILITY	4.2		0.0	4.2		0.0		4.2
TURBOPROP: TOTAL								
ESTIMATED POPULATION	1,568		1,548	948		353	472	79
% STANDARD ERROR	9.4		9.5	14.2		23.2	16.1	38.2
% WITH CAPABILITY	29.7		29.4	18.0		6.7	8.9	1.5
FIXED WING - TURBOJET								
2 ENGINE TURBOJET								
ESTIMATED POPULATION	2,271		554	1,164		226	2,460	586
% STANDARD ERROR	6.0		17.8	11.6		30.0	5.1	13.5
% WITH CAPABILITY	53.5		13.0	27.4		5.3	57.9	13.8
TURBOJET: OTHER								
ESTIMATED POPULATION	160		18	68		12	197	157
% STANDARD ERROR	13.0		55.0	28.9		78.9	9.8	12.5
% WITH CAPABILITY	37.0		4.1	15.8		2.7	45.6	36.2
TURBOJET: TOTAL								
ESTIMATED POPULATION	2,431		572	1,233		238	2,657	743
% STANDARD ERROR	5.7		17.3	11.1		28.8	4.8	11.0
% WITH CAPABILITY	51.9		12.2	26.3		5.1	56.8	15.9
FIXED WING: TOTAL								
ESTIMATED POPULATION	13,119		70,017	11,327		2,335	3,298	1,154
% STANDARD ERROR	4.6		1.8	5.2		11.7	5.1	12.8
% WITH CAPABILITY	6.3		33.5	5.4		1.1	1.6	0.6

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM			
TURBOPROP: OTHER							
ESTIMATED POPULATION	6	6	0	3	3	17	
% STANDARD ERROR	98.1	98.1	0.0	*	*	52.3	
% WITH CAPABILITY	8.3	8.3	0.0	4.2	4.2	24.2	
TURBOPROP: TOTAL							
ESTIMATED POPULATION	3,452	4,136	1,261	455	1,150	313	
% STANDARD ERROR	3.7	2.4	11.1	20.7	11.8	10.9	
% WITH CAPABILITY	65.5	78.5	23.9	8.6	21.8	5.9	
FIXED WING - TURBOJET							
2 ENGINE TURBOJET							
ESTIMATED POPULATION	3,744	3,828	1,113	750	1,746	49	
% STANDARD ERROR	2.4	2.2	10.5	13.7	8.5	39.4	
% WITH CAPABILITY	88.2	90.1	26.2	17.7	41.1	1.2	
TURBOJET: OTHER							
ESTIMATED POPULATION	251	247	76	156	138	50	
% STANDARD ERROR	4.2	2.8	27.0	13.9	16.0	13.0	
% WITH CAPABILITY	58.0	57.2	17.7	36.1	32.0	11.6	
TURBOJET: TOTAL							
ESTIMATED POPULATION	3,994	4,075	1,189	906	1,884	99	
% STANDARD ERROR	2.2	2.1	10.0	11.6	7.9	20.5	
% WITH CAPABILITY	85.4	87.1	25.4	19.4	40.3	2.1	
FIXED WING: TOTAL							
ESTIMATED POPULATION	14,594	17,854	19,186	3,148	25,965	55,304	
% STANDARD ERROR	3.2	2.4	3.7	8.4	3.4	1.7	
% WITH CAPABILITY	7.0	8.5	9.2	1.5	12.4	26.4	

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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BASIC NAVIGATION EQUIPMENT

AIRCRAFT TYPE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
ROTORCRAFT								
PISTON								
ESTIMATED POPULATION	51	282	35	305	17	218	23	24
% STANDARD ERROR	30.9	17.9	50.0	16.6	56.7	21.3	55.2	57.9
% WITH CAPABILITY	1.2	6.6	0.8	7.2	0.4	5.1	0.5	0.6
1 ENG: TURBINE								
ESTIMATED POPULATION	34	393	88	1,150	470	1,052	379	259
% STANDARD ERROR	66.1	21.5	47.5	10.2	19.5	10.8	22.3	28.5
% WITH CAPABILITY	1.2	13.8	3.1	40.4	16.5	37.0	13.3	9.1
MULTI-ENG: TURBINE								
ESTIMATED POPULATION	7	158	17	466	562	656	566	229
% STANDARD ERROR	82.0	21.3	60.2	8.3	5.8	3.9	5.4	17.7
% WITH CAPABILITY	0.8	19.7	2.2	58.0	70.1	81.8	70.5	28.6
TURBINE TOTAL:								
ESTIMATED POPULATION	41	551	106	1,616	1,033	1,709	945	488
% STANDARD ERROR	57.0	16.5	40.9	7.7	9.4	6.8	9.5	17.3
% WITH CAPABILITY	1.1	15.1	2.9	44.3	28.3	46.8	25.9	13.4
ROTORCRAFT: TOTAL								
ESTIMATED POPULATION	92	833	140	1,921	1,050	1,926	969	513
% STANDARD ERROR	30.6	12.5	33.2	7.0	9.3	6.5	9.4	16.7
% WITH CAPABILITY	1.2	10.5	1.8	24.3	13.3	24.4	12.3	6.5
OTHER AIRCRAFT								
GLIDERS:								
ESTIMATED POPULATION	21	0	59	66	16	32	4	1
% STANDARD ERROR	95.8	0.0	56.4	53.0	*	76.9	*	*
% WITH CAPABILITY	0.8	0.0	2.1	2.4	0.6	1.2	0.1	0.0

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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LONG RANGE NAVIGATION EQUIPMENT

AIRCRAFT TYPE	-----LORAN-----						OMEGA	OTHER LRNAV
	L	R	NAV	VFR ONLY	IFR NAV	APP IFR		
ROTORCRAFT								
PISTON								
ESTIMATED POPULATION	84			697	9	9	0	5
% STANDARD ERROR	43.5			10.9	72.7	81.9	0.0	*
% WITH CAPABILITY	2.0			16.4	0.2	0.2	0.0	0.1
1 ENG: TURBINE								
ESTIMATED POPULATION	163			1,444	11	6	0	2
% STANDARD ERROR	36.8			8.0	95.4	*	0.0	80.2
% WITH CAPABILITY	5.7			50.8	0.4	0.2	0.0	0.1
MULTI-ENG: TURBINE								
ESTIMATED POPULATION	103			438	159	56	43	2
% STANDARD ERROR	23.1			7.8	16.6	30.9	27.9	*
% WITH CAPABILITY	12.8			54.5	19.8	7.0	5.4	0.2
TURBINE TOTAL:								
ESTIMATED POPULATION	266			1,882	170	62	43	4
% STANDARD ERROR	24.3			6.4	16.7	32.5	27.9	*
% WITH CAPABILITY	7.3			51.6	4.7	1.7	1.2	0.1
ROTORCRAFT: TOTAL								
ESTIMATED POPULATION	350			2,578	179	72	43	9
% STANDARD ERROR	21.2			5.5	16.3	30.2	27.9	*
% WITH CAPABILITY	4.4			32.6	2.3	0.9	0.5	0.1
OTHER AIRCRAFT								
GLIDERS:								
ESTIMATED POPULATION	1			15	0	0	0	14
% STANDARD ERROR	*			*	0.0	0.0	0.0	*
% WITH CAPABILITY	0.0			0.5	0.0	0.0	0.0	0.5

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7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
LIGHTER-THAN-AIR:								
ESTIMATED POPULATION	122	49	95	0	49	49	47	54
% STANDARD ERROR	52.4	83.5	59.5	0.0	83.5	83.5	85.1	79.3
% WITH CAPABILITY	2.2	0.9	1.7	0.0	0.9	0.9	0.9	1.0
EXPERIMENTAL								
HOME-BUILT:								
ESTIMATED POPULATION	560	916	1,129	2,173	449	361	259	63
% STANDARD ERROR	29.6	22.8	20.4	14.0	33.2	37.2	44.1	90.2
% WITH CAPABILITY	4.4	7.2	8.9	17.1	3.5	2.8	2.0	0.5
EXHIBITION:								
ESTIMATED POPULATION	6	54	137	337	142	62	75	38
% STANDARD ERROR	*	64.8	40.0	24.4	39.2	60.2	54.7	77.9
% WITH CAPABILITY	0.2	2.1	5.2	12.9	5.4	2.4	2.9	1.4
OTHER:								
ESTIMATED POPULATION	107	386	267	1,128	865	1,033	727	549
% STANDARD ERROR	44.5	22.4	27.5	11.3	13.7	12.1	15.3	18.2
% WITH CAPABILITY	3.2	11.7	8.1	34.3	26.3	31.4	22.1	16.7
TOTAL ALL AIRCRAFT								
ESTIMATED POPULATION	8,901	48,707	20,550	111,240	118,514	110,127	76,837	27,857
% STANDARD ERROR	6.4	2.4	4.1	1.2	0.8	1.0	1.4	2.7
% WITH CAPABILITY	3.6	20.0	8.4	45.6	48.6	45.1	31.5	11.4

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

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NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES. AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.11 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

PAGE 15 OF 15

AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM			
LIGHTER-THAN-AIR: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	56 77.9 1.0	54 79.3 1.0	0 0.0 0.0	162 45.3 3.0		159 45.8 2.9	4,407 3.9 80.2
EXPERIMENTAL							
HOME-BUILT: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	31 * 0.2	2 * 0.0	84 78.1 0.7	173 54.1 1.4		994 21.8 7.8	6,724 6.0 53.0
EXHIBITION: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	6 * 0.2	1 * 0.0	3 * 0.1	22 * 0.8		159 36.9 6.1	1,772 6.5 67.7
OTHER: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	369 22.9 11.2	190 33.0 5.8	259 27.9 7.9	7 * 0.2		647 16.5 19.7	1,274 10.3 38.7
TOTAL ALL AIRCRAFT ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	16,079 3.0 6.6	18,373 2.4 7.5	19,724 3.6 8.1	3,633 8.1 1.5		28,866 3.2 11.8	74,346 1.5 30.5

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.12 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

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BASIC NAVIGATION EQUIPMENT

PRIMARY USE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
EXECUTIVE								
ESTIMATED POPULATION	346	1,540	814	8,068	9,401	9,802	9,257	5,985
% STANDARD ERROR	27.2	13.4	17.3	4.2	3.7	3.7	3.6	5.3
% WITH CAPABILITY	3.3	14.6	7.7	76.7	89.3	93.2	88.0	56.9
BUSINESS								
ESTIMATED POPULATION	1,312	7,850	4,041	22,257	26,857	25,395	21,376	9,520
% STANDARD ERROR	16.7	6.9	9.7	3.7	3.2	3.3	3.6	5.6
% WITH CAPABILITY	4.0	23.7	12.2	67.1	80.9	76.5	64.4	28.7
PERSONAL								
ESTIMATED POPULATION	6,028	28,556	13,861	58,434	60,552	53,236	31,712	8,049
% STANDARD ERROR	8.4	3.5	5.3	2.1	1.9	2.1	3.0	6.4
% WITH CAPABILITY	5.0	23.6	11.4	48.2	50.0	43.9	26.2	6.6
INSTRUCTIONAL								
ESTIMATED POPULATION	421	3,799	738	10,137	7,212	7,260	4,073	731
% STANDARD ERROR	31.3	10.4	24.6	6.1	7.3	7.2	9.6	22.4
% WITH CAPABILITY	2.8	24.9	4.8	66.6	47.3	47.7	26.7	4.8
AERIAL APPLICATION								
ESTIMATED POPULATION	57	189	58	629	294	241	169	108
% STANDARD ERROR	91.5	32.6	64.8	20.3	29.0	25.0	29.0	38.9
% WITH CAPABILITY	1.0	3.4	1.0	11.4	5.3	4.4	3.1	2.0
AERIAL OBSERVATION								
ESTIMATED POPULATION	127	681	375	2,887	2,340	2,796	1,397	363
% STANDARD ERROR	50.7	23.7	30.5	11.1	12.7	11.4	16.2	30.5
% WITH CAPABILITY	2.6	13.7	7.6	58.1	47.1	56.3	28.1	7.3
SIGHT SEEING								
ESTIMATED POPULATION	62	353	8	313	238	206	50	108
% STANDARD ERROR	82.4	31.6	*	30.6	39.8	42.8	69.4	53.4
% WITH CAPABILITY	3.7	20.9	0.5	18.6	14.1	12.2	3.0	6.4

7.12 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 6

LONG RANGE NAVIGATION EQUIPMENT

PRIMARY USE	LORAN					OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR			
EXECUTIVE							
ESTIMATED POPULATION	4,023	3,347	2,360	482	2,471	669	
% STANDARD ERROR	6.1	8.6	9.3	21.6	5.4	9.5	
% WITH CAPABILITY	38.2	31.8	22.4	4.6	23.5	6.4	
BUSINESS							
ESTIMATED POPULATION	2,921	15,918	3,520	615	94	35	
% STANDARD ERROR	11.1	4.6	10.0	24.0	45.2	82.5	
% WITH CAPABILITY	8.8	48.0	10.6	1.9	0.3	0.1	
PERSONAL							
ESTIMATED POPULATION	4,293	46,030	4,664	879	189	164	
% STANDARD ERROR	9.4	2.6	9.0	20.0	46.2	52.6	
% WITH CAPABILITY	3.5	38.0	3.8	0.7	0.2	0.1	
INSTRUCTIONAL							
ESTIMATED POPULATION	402	3,004	247	106	1	1	
% STANDARD ERROR	31.5	11.5	39.7	54.1	*	*	
% WITH CAPABILITY	2.6	19.7	1.6	0.7	0.0	0.0	
AERIAL APPLICATION							
ESTIMATED POPULATION	53	616	4	0	0	0	
% STANDARD ERROR	*	18.4	*	0.0	0.0	0.0	
% WITH CAPABILITY	1.0	11.1	0.1	0.0	0.0	0.0	
AERIAL OBSERVATION							
ESTIMATED POPULATION	241	2,207	223	96	16	23	
% STANDARD ERROR	32.9	12.5	40.3	63.4	93.7	*	
% WITH CAPABILITY	4.9	44.4	4.5	1.9	0.3	0.5	
SIGHT SEEING							
ESTIMATED POPULATION	3	175	109	3	0	0	
% STANDARD ERROR	*	34.5	62.6	*	0.0	0.0	
% WITH CAPABILITY	0.2	10.4	6.4	0.2	0.0	0.0	

7.12 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

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PRIMARY USE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
EXECUTIVE						
ESTIMATED POPULATION	7,127	7,689	3,057	1,232	3,349	98
% STANDARD ERROR	3.5	3.4	8.1	12.7	7.7	56.9
% WITH CAPABILITY	67.7	73.1	29.0	11.7	31.8	0.9
BUSINESS						
ESTIMATED POPULATION	3,043	4,323	6,742	653	7,088	2,741
% STANDARD ERROR	9.9	7.9	6.9	23.0	6.9	12.1
% WITH CAPABILITY	9.2	13.0	20.3	2.0	21.4	8.3
PERSONAL						
ESTIMATED POPULATION	2,948	2,185	7,530	713	15,170	41,432
% STANDARD ERROR	11.0	12.1	6.7	22.9	5.0	2.4
% WITH CAPABILITY	2.4	1.8	6.2	0.6	12.5	34.2
INSTRUCTIONAL						
ESTIMATED POPULATION	228	152	417	37	779	6,436
% STANDARD ERROR	39.9	42.6	29.5	*	22.9	7.4
% WITH CAPABILITY	1.5	1.0	2.7	0.2	5.1	42.3
AERIAL APPLICATION						
ESTIMATED POPULATION	44	38	2	177	196	4,629
% STANDARD ERROR	60.9	85.1	*	32.9	36.8	5.0
% WITH CAPABILITY	0.8	0.7	0.0	3.2	3.5	83.8
AERIAL OBSERVATION						
ESTIMATED POPULATION	306	231	386	55	1,078	1,069
% STANDARD ERROR	25.9	31.9	30.9	80.1	17.4	18.8
% WITH CAPABILITY	6.2	4.7	7.8	1.1	21.7	21.5
SIGHT SEEING						
ESTIMATED POPULATION	5	63	0	9	126	1,267
% STANDARD ERROR	44.7	78.8	0.0	*	52.9	15.8
% WITH CAPABILITY	0.3	3.8	0.0	0.5	7.5	75.2

7.12 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

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PRIMARY USE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
EXTERNAL LOAD								
ESTIMATED POPULATION	0	1	0	68	8	12	9	2
% STANDARD ERROR	0.0	*	0.0	30.8	57.0	52.7	54.4	*
% WITH CAPABILITY	0.0	0.9	0.0	40.5	4.7	6.9	5.1	1.0
OTHER WORK USE								
ESTIMATED POPULATION	5	271	145	410	319	272	248	54
% STANDARD ERROR	*	31.2	49.1	28.3	31.5	35.5	37.1	72.7
% WITH CAPABILITY	0.4	23.1	12.3	34.9	27.1	23.2	21.1	4.6
AIR TAXI								
ESTIMATED POPULATION	166	632	125	2,986	3,250	3,609	3,139	1,416
% STANDARD ERROR	50.8	18.8	52.8	8.6	8.1	7.8	8.1	13.1
% WITH CAPABILITY	4.2	16.0	3.2	75.7	82.4	91.5	79.6	35.9
OTHER								
ESTIMATED POPULATION	123	508	238	2,014	2,182	1,901	1,762	790
% STANDARD ERROR	49.9	24.1	45.4	12.1	12.4	12.4	12.9	19.9
% WITH CAPABILITY	2.6	10.9	5.1	43.2	46.8	40.8	37.8	17.0
INACTIVE								
ESTIMATED POPULATION	673	5,374	1,198	5,966	6,846	6,047	3,726	1,037
% STANDARD ERROR	19.9	6.9	16.2	6.1	5.6	6.2	8.2	15.6
% WITH CAPABILITY	2.9	23.0	5.1	25.6	29.3	25.9	16.0	4.4
TOTAL ALL AIRCRAFT								
ESTIMATED POPULATION	8,901	48,707	20,550	111,240	118,514	110,127	76,837	27,857
% STANDARD ERROR	6.4	2.4	4.1	1.2	0.8	1.0	1.4	2.7
% WITH CAPABILITY	3.6	20.0	8.4	45.6	48.6	45.1	31.5	11.4

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.12 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

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PRIMARY USE	LONG RANGE NAVIGATION EQUIPMENT							OMEGA	OTHER LRNAV
	L	R	NAV	VFR ONLY	IFR NAV	APP	IFR		
EXTERNAL LOAD									
ESTIMATED POPULATION	0			150	0		0	0	0
% STANDARD ERROR	0.0			30.9	0.0		0.0	0.0	0.0
% WITH CAPABILITY	0.0			89.2	0.0		0.0	0.0	0.0
OTHER WORK USE									
ESTIMATED POPULATION	1			287	3		11	1	10
% STANDARD ERROR	*			31.3	*		*	*	*
% WITH CAPABILITY	0.1			24.4	0.3		1.0	0.0	0.9
AIR TAXI									
ESTIMATED POPULATION	367			1,700	294		45	133	6
% STANDARD ERROR	23.2			12.1	27.8		49.4	34.1	*
% WITH CAPABILITY	9.3			43.1	7.5		1.1	3.4	0.1
OTHER									
ESTIMATED POPULATION	550			1,780	302		19	97	140
% STANDARD ERROR	21.9			14.3	30.9		51.9	35.0	42.7
% WITH CAPABILITY	11.8			38.2	6.5		0.4	2.1	3.0
INACTIVE									
ESTIMATED POPULATION	921			4,094	630		123	227	152
% STANDARD ERROR	16.7			8.2	20.9		41.8	11.6	48.4
% WITH CAPABILITY	3.9			17.5	2.7		0.5	1.0	0.7
TOTAL ALL AIRCRAFT	13,676			76,287	12,033		2,468	3,356	1,229
ESTIMATED POPULATION	4.4			1.7	5.1		11.2	5.0	12.8
% STANDARD ERROR	5.6			31.3	4.9		1.0	1.4	0.5

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.12 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

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PRIMARY USE	OTHER NAVIGATION EQUIPMENT				
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM
EXTERNAL LOAD					
ESTIMATED POPULATION	37	2	0	0	5
% STANDARD ERROR	51.6	*	0.0	0.0	89.7
% WITH CAPABILITY	21.9	1.0	0.0	0.0	3.1
OTHER WORK USE					
ESTIMATED POPULATION	113	57	52	29	37
% STANDARD ERROR	54.4	69.7	88.8	91.1	70.3
% WITH CAPABILITY	9.6	4.8	4.5	2.5	3.2
AIR TAXI					
ESTIMATED POPULATION	839	1,832	475	36	666
% STANDARD ERROR	14.1	10.4	25.3	73.8	18.9
% WITH CAPABILITY	21.3	46.5	12.1	0.9	16.9
OTHER					
ESTIMATED POPULATION	527	517	419	243	562
% STANDARD ERROR	18.7	19.4	28.0	40.4	22.7
% WITH CAPABILITY	11.3	11.1	9.0	5.2	12.1
INACTIVE					
ESTIMATED POPULATION	790	942	418	348	1,211
% STANDARD ERROR	12.8	13.9	29.6	17.6	12.9
% WITH CAPABILITY	3.4	4.0	1.8	1.5	5.2
TOTAL ALL AIRCRAFT	16,079	18,373	19,724	3,633	28,866
ESTIMATED POPULATION	3.0	2.4	3.6	8.1	3.2
% STANDARD ERROR	6.6	7.5	8.1	1.5	11.8
% WITH CAPABILITY					

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

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REGION	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
ALASKAN								
ESTIMATED POPULATION	569	1,493	369	2,544	1,278	2,992	653	152
% STANDARD ERROR	24.1	13.4	31.1	11.1	15.5	10.0	20.3	29.7
% WITH CAPABILITY	8.4	22.0	5.4	37.5	18.9	44.1	9.6	2.2
CENTRAL								
ESTIMATED POPULATION	449	3,680	1,192	6,198	6,753	6,130	4,156	2,253
% STANDARD ERROR	28.3	10.3	17.9	7.6	7.3	7.7	9.0	12.1
% WITH CAPABILITY	3.2	26.1	8.5	43.9	47.9	43.5	29.5	16.0
EASTERN								
ESTIMATED POPULATION	1,509	5,811	2,898	14,169	14,947	13,223	9,825	3,647
% STANDARD ERROR	16.6	8.0	11.4	5.0	4.8	5.1	5.9	9.2
% WITH CAPABILITY	5.7	21.9	10.9	53.3	56.2	49.7	37.0	13.7
GREAT LAKES								
ESTIMATED POPULATION	1,365	9,518	3,563	20,273	21,198	19,543	12,563	5,153
% STANDARD ERROR	16.9	6.3	10.1	4.1	4.0	4.1	5.1	7.7
% WITH CAPABILITY	3.4	23.5	8.8	50.1	52.4	48.3	31.0	12.7
NEW ENGLAND								
ESTIMATED POPULATION	476	2,246	1,019	4,849	5,482	4,967	3,004	1,139
% STANDARD ERROR	29.3	13.4	19.6	8.8	8.4	8.7	11.2	17.4
% WITH CAPABILITY	4.6	21.6	9.8	46.5	52.6	47.7	28.8	10.9
NORTHWEST MOUNTAIN								
ESTIMATED POPULATION	1,195	5,088	2,308	10,651	11,203	10,598	6,738	2,091
% STANDARD ERROR	18.2	8.6	13.0	5.8	5.6	5.7	7.2	12.1
% WITH CAPABILITY	5.0	21.1	9.6	44.2	46.5	43.9	27.9	8.7

7.13 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
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LONG RANGE NAVIGATION EQUIPMENT

REGION	LORAN					OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR			
ALASKAN							
ESTIMATED POPULATION	137	1,866	102	48		42	5
% STANDARD ERROR	38.4	12.4	42.9	61.9		38.2	*
% WITH CAPABILITY	2.0	27.5	1.5	0.7		0.6	0.1
CENTRAL							
ESTIMATED POPULATION	1,312	3,997	906	188		267	73
% STANDARD ERROR	15.9	9.6	19.4	40.1		26.5	50.7
% WITH CAPABILITY	9.3	28.3	6.4	1.3		1.9	0.5
EASTERN							
ESTIMATED POPULATION	1,869	9,654	1,784	391		462	154
% STANDARD ERROR	12.6	6.1	13.5	29.2		20.1	30.9
% WITH CAPABILITY	7.0	36.3	6.7	1.5		1.7	0.6
GREAT LAKES							
ESTIMATED POPULATION	2,737	14,127	2,406	479		777	203
% STANDARD ERROR	10.7	5.0	12.0	23.0		14.3	32.1
% WITH CAPABILITY	6.8	34.9	5.9	1.2		1.9	0.5
NEW ENGLAND							
ESTIMATED POPULATION	565	4,044	612	93		113	59
% STANDARD ERROR	26.7	9.8	24.3	56.4		46.2	68.7
% WITH CAPABILITY	5.4	38.8	5.9	0.9		1.1	0.6
NORTHWEST MOUNTAIN							
ESTIMATED POPULATION	884	7,708	690	146		252	138
% STANDARD ERROR	19.1	6.8	20.8	46.5		26.4	53.0
% WITH CAPABILITY	3.7	32.0	2.9	0.6		1.0	0.6

7.13 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
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REGION	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM			
ALASKAN							
ESTIMATED POPULATION	277	122	0	100	1,699	2,355	
% STANDARD ERROR	33.5	30.7	0.0	48.0	13.6	10.9	
% WITH CAPABILITY	4.1	1.8	0.0	1.5	25.1	34.7	
CENTRAL							
ESTIMATED POPULATION	1,439	1,390	1,431	190	1,574	5,697	
% STANDARD ERROR	14.1	13.5	15.6	36.2	14.7	7.8	
% WITH CAPABILITY	10.2	9.9	10.1	1.3	11.2	40.4	
EASTERN							
ESTIMATED POPULATION	1,990	2,310	2,708	381	3,007	8,925	
% STANDARD ERROR	11.1	10.3	11.0	26.5	10.9	6.0	
% WITH CAPABILITY	7.5	8.7	10.2	1.4	11.3	33.6	
GREAT LAKES							
ESTIMATED POPULATION	2,683	3,502	4,011	815	4,262	14,477	
% STANDARD ERROR	9.0	8.3	9.1	18.6	8.9	4.6	
% WITH CAPABILITY	6.6	8.7	9.9	2.0	10.5	35.8	
NEW ENGLAND							
ESTIMATED POPULATION	570	519	834	161	1,084	3,911	
% STANDARD ERROR	23.2	23.4	20.4	36.7	18.5	9.5	
% WITH CAPABILITY	5.5	5.0	8.0	1.5	10.4	37.6	
NORTHWEST MOUNTAIN							
ESTIMATED POPULATION	1,353	1,425	1,024	341	3,551	9,331	
% STANDARD ERROR	13.4	13.4	17.9	26.0	10.0	5.9	
% WITH CAPABILITY	5.6	5.9	4.2	1.4	14.7	38.7	

7.13 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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REGION	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
SOUTHERN	ESTIMATED POPULATION	8,148	3,458	18,890	21,205	20,505	14,712	5,110
	% STANDARD ERROR	6.8	10.5	4.2	3.9	4.0	4.6	7.7
	% WITH CAPABILITY	22.8	9.7	52.8	59.3	57.3	41.1	14.3
SOUTHWESTERN	ESTIMATED POPULATION	5,553	2,213	13,622	15,037	14,100	10,553	3,870
	% STANDARD ERROR	8.3	13.1	5.1	4.8	4.9	5.6	8.7
	% WITH CAPABILITY	20.4	8.1	50.2	55.4	51.9	38.9	14.2
WESTERN-PACIFIC	ESTIMATED POPULATION	7,107	3,521	20,008	21,377	18,035	14,596	4,413
	% STANDARD ERROR	7.2	10.3	4.0	3.9	4.2	4.7	8.4
	% WITH CAPABILITY	20.0	9.9	56.4	60.2	50.8	41.1	12.4
TOTAL ALL AIRCRAFT	ESTIMATED POPULATION	48,707	20,550	111,240	118,514	110,127	76,837	27,857
	% STANDARD ERROR	2.4	4.1	1.2	0.8	1.0	1.4	2.7
	% WITH CAPABILITY	20.0	8.4	45.6	48.6	45.1	31.5	11.4

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

7.13 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
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EXCLUDES COMMUTER AIRCRAFT

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REGION	LONG RANGE NAVIGATION EQUIPMENT						OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR	OMEGA		
SOUTHERN							
ESTIMATED POPULATION	2,440	14,278	2,490	587	578	162	
% STANDARD ERROR	11.4	5.0	11.9	24.7	17.9	43.2	
% WITH CAPABILITY	6.8	39.9	7.0	1.6	1.6	0.5	
SOUTHWESTERN							
ESTIMATED POPULATION	2,155	8,699	1,688	182	367	272	
% STANDARD ERROR	12.0	6.4	14.3	42.5	19.5	36.2	
% WITH CAPABILITY	7.9	32.0	6.2	0.7	1.4	1.0	
WESTERN-PACIFIC							
ESTIMATED POPULATION	1,577	11,912	1,355	356	497	164	
% STANDARD ERROR	13.5	5.3	15.7	30.1	21.2	36.6	
% WITH CAPABILITY	4.4	33.6	3.8	1.0	1.4	0.5	
TOTAL ALL AIRCRAFT							
ESTIMATED POPULATION	13,676	76,287	12,033	2,468	3,356	1,229	
% STANDARD ERROR	4.4	1.7	5.1	11.2	5.0	12.8	
% WITH CAPABILITY	5.6	31.3	4.9	1.0	1.4	0.5	

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

7.13 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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REGION	OTHER NAVIGATION EQUIPMENT				GPS SYSTEM	GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM			
SOUTHERN							
ESTIMATED POPULATION	3,103	4,259	4,789	655	4,733	9,467	
% STANDARD ERROR	9.0	7.5	8.4	20.7	8.4	5.8	
% WITH CAPABILITY	8.7	11.9	13.4	1.8	13.2	26.5	
SOUTHWESTERN							
ESTIMATED POPULATION	2,296	2,605	2,958	546	4,074	9,074	
% STANDARD ERROR	10.6	9.6	10.6	20.9	9.0	5.8	
% WITH CAPABILITY	8.5	9.6	10.9	2.0	15.0	33.4	
WESTERN-PACIFIC							
ESTIMATED POPULATION	2,332	2,235	1,965	439	4,874	10,979	
% STANDARD ERROR	10.3	10.6	12.7	24.0	8.2	5.2	
% WITH CAPABILITY	6.6	6.3	5.5	1.2	13.7	30.9	
TOTAL ALL AIRCRAFT	16,079	18,373	19,724	3,633	28,866	74,346	
ESTIMATED POPULATION	3.0	2.4	3.6	8.1	3.2	1.5	
% STANDARD ERROR	6.6	7.5	8.1	1.5	11.8	30.5	

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
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BASIC NAVIGATION EQUIPMENT

STATE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
ALABAMA								
ESTIMATED POPULATION	58	527	347	1,999	2,033	1,893	1,381	447
% STANDARD ERROR	79.9	28.3	34.9	13.8	14.0	14.3	16.2	26.5
% WITH CAPABILITY	1.5	14.1	9.2	53.3	54.2	50.5	36.8	11.9
ALASKA								
ESTIMATED POPULATION	569	1,493	369	2,544	1,278	2,992	653	152
% STANDARD ERROR	24.1	13.4	31.1	11.1	15.5	10.0	20.3	29.7
% WITH CAPABILITY	8.4	22.0	5.4	37.5	18.9	44.1	9.6	2.2
ARIZONA								
ESTIMATED POPULATION	45	912	613	2,873	2,838	2,368	1,872	425
% STANDARD ERROR	75.1	20.6	25.3	11.2	11.3	12.2	13.9	26.9
% WITH CAPABILITY	0.8	17.1	11.5	53.8	53.1	44.3	35.1	8.0
ARKANSAS								
ESTIMATED POPULATION	139	312	198	1,641	1,613	1,428	1,038	342
% STANDARD ERROR	57.1	31.7	41.8	15.0	15.2	15.9	18.2	30.5
% WITH CAPABILITY	4.5	10.2	6.5	53.8	52.8	46.8	34.0	11.2
CALIFORNIA								
ESTIMATED POPULATION	905	5,464	2,639	15,429	16,896	14,208	11,581	3,628
% STANDARD ERROR	20.3	8.2	11.9	4.6	4.5	4.9	5.4	9.3
% WITH CAPABILITY	3.3	20.1	9.7	56.7	62.1	52.2	42.6	13.3
COLORADO								
ESTIMATED POPULATION	250	1,048	576	2,218	2,458	2,394	1,724	478
% STANDARD ERROR	39.7	19.7	26.9	13.2	12.5	12.7	14.9	25.9
% WITH CAPABILITY	5.4	22.6	12.4	47.8	53.0	51.6	37.1	10.3
CONNECTICUT								
ESTIMATED POPULATION	93	446	151	897	960	872	470	285
% STANDARD ERROR	63.6	29.9	44.1	21.0	20.0	20.9	27.9	35.7
% WITH CAPABILITY	4.8	23.2	7.9	46.5	49.8	45.3	24.4	14.8

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LONG RANGE NAVIGATION EQUIPMENT

STATE	-----LORAN-----						OMEGA	OTHER LRNAV
	L	R	NAV	VFR ONLY	IFR NAV	APP IFR		
-----LORAN-----								
ALABAMA								
ESTIMATED POPULATION	335			1,303	305	87	62	22
% STANDARD ERROR	33.6			17.6	33.3	68.2	66.6	*
% WITH CAPABILITY	8.9			34.7	8.1	2.3	1.7	0.6
ALASKA								
ESTIMATED POPULATION	137			1,866	102	48	42	5
% STANDARD ERROR	38.4			12.4	42.9	61.9	38.2	*
% WITH CAPABILITY	2.0			27.5	1.5	0.7	0.6	0.1
ARIZONA								
ESTIMATED POPULATION	111			1,637	149	7	51	3
% STANDARD ERROR	59.8			15.0	48.2	*	82.1	*
% WITH CAPABILITY	2.1			30.7	2.8	0.1	1.0	0.1
ARKANSAS								
ESTIMATED POPULATION	164			802	241	45	11	28
% STANDARD ERROR	41.6			21.1	39.7	95.7	86.5	*
% WITH CAPABILITY	5.4			26.3	7.9	1.5	0.3	0.9
CALIFORNIA								
ESTIMATED POPULATION	1,298			9,293	1,120	312	402	157
% STANDARD ERROR	14.8			6.1	17.3	32.6	23.5	37.6
% WITH CAPABILITY	4.8			34.2	4.1	1.1	1.5	0.6
COLORADO								
ESTIMATED POPULATION	337			1,290	56	1	87	17
% STANDARD ERROR	33.0			17.1	71.9	*	48.7	*
% WITH CAPABILITY	7.3			27.8	1.2	0.0	1.9	0.4
CONNECTICUT								
ESTIMATED POPULATION	94			763	127	57	73	37
% STANDARD ERROR	64.4			21.9	52.9	78.3	61.6	92.6
% WITH CAPABILITY	4.9			39.6	6.6	3.0	3.8	1.9

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
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STATE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
ALABAMA						
ESTIMATED POPULATION	229	464	538	52	368	1,412
% STANDARD ERROR	34.0	25.0	26.2	66.6	30.2	15.3
% WITH CAPABILITY	6.1	12.4	14.3	1.4	9.8	37.7
ALASKA						
ESTIMATED POPULATION	277	122	0	100	1,699	2,355
% STANDARD ERROR	33.5	30.7	0.0	48.0	13.6	10.9
% WITH CAPABILITY	4.1	1.8	0.0	1.5	25.1	34.7
ARIZONA						
ESTIMATED POPULATION	252	212	325	38	617	1,955
% STANDARD ERROR	29.2	34.1	32.7	61.2	23.0	12.9
% WITH CAPABILITY	4.7	4.0	6.1	0.7	11.5	36.6
ARKANSAS						
ESTIMATED POPULATION	167	392	237	90	524	1,255
% STANDARD ERROR	35.9	25.3	37.6	55.3	25.7	16.5
% WITH CAPABILITY	5.5	12.8	7.8	2.9	17.2	41.1
CALIFORNIA						
ESTIMATED POPULATION	1,960	1,789	1,378	321	3,923	7,962
% STANDARD ERROR	11.6	12.1	15.2	28.3	9.3	6.3
% WITH CAPABILITY	7.2	6.6	5.1	1.2	14.4	29.3
COLORADO						
ESTIMATED POPULATION	250	357	252	50	757	1,721
% STANDARD ERROR	30.3	27.3	35.2	82.4	22.1	14.6
% WITH CAPABILITY	5.4	7.7	5.4	1.1	16.3	37.1
CONNECTICUT						
ESTIMATED POPULATION	137	111	211	14	331	671
% STANDARD ERROR	46.5	49.1	41.9	*	35.0	22.5
% WITH CAPABILITY	7.1	5.8	11.0	0.7	17.2	34.9

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STATE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
DELAWARE								
ESTIMATED POPULATION	45	254	219	987	1,090	928	819	408
% STANDARD ERROR	60.7	35.1	38.9	18.9	17.8	19.0	20.1	26.0
% WITH CAPABILITY	2.9	16.2	14.0	63.0	69.6	59.2	52.3	26.0
DISTRICT OF COLUMBIA								
ESTIMATED POPULATION	5	5	5	19	24	23	21	5
% STANDARD ERROR	*	*	*	*	*	*	*	*
% WITH CAPABILITY	16.5	16.5	16.8	64.8	83.3	78.0	72.1	16.5
FLORIDA								
ESTIMATED POPULATION	562	2,716	1,106	6,607	7,683	7,901	5,455	1,834
% STANDARD ERROR	24.8	10.9	18.4	7.3	6.8	6.6	7.9	13.1
% WITH CAPABILITY	4.8	23.0	9.4	55.9	65.0	66.8	46.1	15.5
GEORGIA								
ESTIMATED POPULATION	70	1,007	251	2,399	2,522	2,500	1,897	819
% STANDARD ERROR	58.6	19.3	38.1	12.5	11.9	12.0	13.6	19.4
% WITH CAPABILITY	1.6	22.6	5.6	53.9	56.6	56.1	42.6	18.4
HAWAII								
ESTIMATED POPULATION	0	152	15	298	212	175	184	16
% STANDARD ERROR	0.0	47.7	*	28.9	37.6	39.1	39.1	*
% WITH CAPABILITY	0.0	27.8	2.8	54.6	38.8	32.1	33.7	2.9
IDAHO								
ESTIMATED POPULATION	112	774	194	787	946	1,044	529	224
% STANDARD ERROR	56.6	23.0	46.3	20.1	19.3	18.8	24.9	37.8
% WITH CAPABILITY	4.8	33.4	8.4	34.0	40.9	45.1	22.9	9.7
ILLINOIS								
ESTIMATED POPULATION	317	1,748	932	4,055	4,227	4,154	3,210	1,271
% STANDARD ERROR	36.2	14.6	20.8	9.5	9.4	9.4	10.5	15.9
% WITH CAPABILITY	4.3	24.0	12.8	55.6	57.9	56.9	44.0	17.4

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
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LONG RANGE NAVIGATION EQUIPMENT

STATE	LORAN					OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR			
DELAWARE							
ESTIMATED POPULATION	133	654	117	41	22	8	
% STANDARD ERROR	51.5	23.0	47.9	83.7	49.4	*	
% WITH CAPABILITY	8.5	41.7	7.5	2.6	1.4	0.5	
DISTRICT OF COLUMBIA							
ESTIMATED POPULATION	11	5	5	5	0	3	
% STANDARD ERROR	*	*	*	*	0.0	*	
% WITH CAPABILITY	36.5	16.8	16.5	16.5	0.0	8.7	
FLORIDA							
ESTIMATED POPULATION	1,053	4,548	924	238	261	95	
% STANDARD ERROR	17.4	8.7	19.7	38.3	27.2	61.5	
% WITH CAPABILITY	8.9	38.5	7.8	2.0	2.2	0.8	
GEORGIA							
ESTIMATED POPULATION	245	2,114	428	31	55	12	
% STANDARD ERROR	33.5	13.4	27.8	*	49.0	*	
% WITH CAPABILITY	5.5	47.5	9.6	0.7	1.2	0.3	
HAWAII							
ESTIMATED POPULATION	6	74	4	2	4	3	
% STANDARD ERROR	*	57.7	*	*	*	*	
% WITH CAPABILITY	1.1	13.5	0.6	0.4	0.8	0.5	
IDAHO							
ESTIMATED POPULATION	19	695	19	0	9	4	
% STANDARD ERROR	*	22.5	*	0.0	98.6	*	
% WITH CAPABILITY	0.8	30.0	0.8	0.0	0.4	0.2	
ILLINOIS							
ESTIMATED POPULATION	852	2,962	565	124	127	74	
% STANDARD ERROR	20.4	11.4	25.5	46.0	36.6	51.0	
% WITH CAPABILITY	11.7	40.6	7.7	1.7	1.7	1.0	

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STATE	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM		
DELAWARE							
ESTIMATED POPULATION	147	265	245	53	376	380	
% STANDARD ERROR	38.5	31.4	36.4	79.7	31.2	27.7	
% WITH CAPABILITY	9.4	16.9	15.6	3.4	24.0	24.3	
DISTRICT OF COLUMBIA							
ESTIMATED POPULATION	9	9	6	9	0	0	
% STANDARD ERROR	*	*	*	*	0.0	0.0	
% WITH CAPABILITY	32.5	32.5	20.0	32.5	0.0	0.0	
FLORIDA							
ESTIMATED POPULATION	1,246	1,288	1,788	357	2,155	2,315	
% STANDARD ERROR	14.7	13.7	13.8	29.4	12.4	11.9	
% WITH CAPABILITY	10.5	10.9	15.1	3.0	18.2	19.6	
GEORGIA							
ESTIMATED POPULATION	620	660	477	32	461	1,030	
% STANDARD ERROR	19.8	19.7	25.3	81.4	26.2	17.9	
% WITH CAPABILITY	13.9	14.8	10.7	0.7	10.3	23.1	
HAWAII							
ESTIMATED POPULATION	19	75	62	8	122	320	
% STANDARD ERROR	*	56.4	62.1	*	43.9	28.4	
% WITH CAPABILITY	3.5	13.7	11.4	1.4	22.4	58.5	
IDAHO							
ESTIMATED POPULATION	170	163	4	69	475	913	
% STANDARD ERROR	42.1	42.1	*	48.6	27.3	18.3	
% WITH CAPABILITY	7.3	7.0	0.2	3.0	20.5	39.4	
ILLINOIS							
ESTIMATED POPULATION	797	914	901	183	1,017	2,079	
% STANDARD ERROR	18.4	17.8	19.6	38.0	18.3	13.0	
% WITH CAPABILITY	10.9	12.5	12.4	2.5	13.9	28.5	

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BASIC NAVIGATION EQUIPMENT

STATE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
INDIANA								
ESTIMATED POPULATION	67	977	392	2,578	2,664	2,474	1,611	837
% STANDARD ERROR	71.9	20.0	29.2	11.8	11.8	12.2	14.6	20.0
% WITH CAPABILITY	1.5	21.4	8.6	56.4	58.3	54.2	35.3	18.3
IOWA								
ESTIMATED POPULATION	136	751	264	1,336	1,496	1,248	827	462
% STANDARD ERROR	56.3	22.2	34.7	16.9	15.9	17.2	20.2	27.2
% WITH CAPABILITY	4.4	24.1	8.5	42.8	47.9	40.0	26.5	14.8
KANSAS								
ESTIMATED POPULATION	168	1,096	294	1,947	2,084	2,027	1,526	736
% STANDARD ERROR	45.6	19.2	37.9	13.6	13.3	13.7	15.3	21.4
% WITH CAPABILITY	4.5	29.1	7.8	51.6	55.3	53.8	40.5	19.5
KENTUCKY								
ESTIMATED POPULATION	77	493	280	928	1,061	1,031	892	234
% STANDARD ERROR	65.1	28.5	39.4	20.1	19.1	19.3	20.5	36.0
% WITH CAPABILITY	3.3	21.1	12.0	39.7	45.4	44.1	38.1	10.0
LOUISIANA								
ESTIMATED POPULATION	44	265	320	1,380	1,547	1,400	1,016	291
% STANDARD ERROR	81.2	36.6	34.8	16.7	15.7	16.1	18.9	33.0
% WITH CAPABILITY	1.5	9.1	11.0	47.3	53.0	48.0	34.8	10.0
MAINE								
ESTIMATED POPULATION	110	292	135	617	699	589	152	53
% STANDARD ERROR	65.5	38.7	53.5	25.1	24.3	25.7	45.3	73.7
% WITH CAPABILITY	8.3	22.1	10.2	46.7	52.9	44.6	11.5	4.0
MARYLAND								
ESTIMATED POPULATION	57	426	332	1,611	1,574	1,350	1,084	213
% STANDARD ERROR	85.6	28.7	35.5	15.1	15.6	16.4	18.0	35.0
% WITH CAPABILITY	1.9	14.3	11.2	54.1	52.9	45.3	36.4	7.2

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STATE	LONG RANGE NAVIGATION EQUIPMENT							OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR	LORAN				
INDIANA									
ESTIMATED POPULATION	306	1,400	385	150			176	11	
% STANDARD ERROR	29.4	16.4	29.3	39.8			31.2	*	
% WITH CAPABILITY	6.7	30.7	8.4	3.3			3.8	0.2	
IOWA									
ESTIMATED POPULATION	346	970	214	45			16	17	
% STANDARD ERROR	31.8	20.0	41.4	92.6			*	*	
% WITH CAPABILITY	11.1	31.1	6.9	1.5			0.5	0.5	
KANSAS									
ESTIMATED POPULATION	469	1,235	200	39			126	13	
% STANDARD ERROR	28.3	17.6	40.1	*			41.7	87.1	
% WITH CAPABILITY	12.5	32.8	5.3	1.0			3.3	0.3	
KENTUCKY									
ESTIMATED POPULATION	221	1,046	180	45			18	2	
% STANDARD ERROR	41.0	20.0	43.3	96.1			87.7	80.2	
% WITH CAPABILITY	9.4	44.7	7.7	1.9			0.8	0.1	
LOUISIANA									
ESTIMATED POPULATION	178	996	164	30			63	17	
% STANDARD ERROR	42.7	18.9	46.1	99.2			57.2	*	
% WITH CAPABILITY	6.1	34.1	5.6	1.0			2.1	0.6	
MAINE									
ESTIMATED POPULATION	56	753	40	3			3	3	
% STANDARD ERROR	83.9	23.7	88.2	*			*	*	
% WITH CAPABILITY	4.2	57.0	3.0	0.2			0.2	0.2	
MARYLAND									
ESTIMATED POPULATION	117	751	160	18			5	9	
% STANDARD ERROR	52.2	21.7	46.1	71.1			*	*	
% WITH CAPABILITY	3.9	25.2	5.4	0.6			0.2	0.3	

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STATE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
INDIANA						
ESTIMATED POPULATION	350	468	632	56	469	1,572
% STANDARD ERROR	24.8	23.3	22.8	67.3	25.9	14.8
% WITH CAPABILITY	7.7	10.2	13.8	1.2	10.3	34.4
IOWA						
ESTIMATED POPULATION	245	270	294	39	259	1,303
% STANDARD ERROR	36.3	29.7	34.1	94.6	34.9	16.5
% WITH CAPABILITY	7.9	8.7	9.4	1.2	8.3	41.8
KANSAS						
ESTIMATED POPULATION	542	477	382	41	586	1,175
% STANDARD ERROR	23.5	23.9	30.1	81.9	24.4	16.9
% WITH CAPABILITY	14.4	12.7	10.1	1.1	15.5	31.2
KENTUCKY						
ESTIMATED POPULATION	174	319	279	48	143	812
% STANDARD ERROR	37.3	30.3	37.1	73.2	49.5	21.5
% WITH CAPABILITY	7.4	13.6	11.9	2.1	6.1	34.7
LOUISIANA						
ESTIMATED POPULATION	258	245	424	73	292	1,052
% STANDARD ERROR	32.0	31.8	29.4	49.9	35.0	17.8
% WITH CAPABILITY	8.8	8.4	14.5	2.5	10.0	36.0
MAINE						
ESTIMATED POPULATION	22	70	29	6	182	352
% STANDARD ERROR	96.0	64.6	92.0	*	46.5	30.8
% WITH CAPABILITY	1.7	5.3	2.2	0.4	13.8	26.7
MARYLAND						
ESTIMATED POPULATION	182	169	241	59	611	1,079
% STANDARD ERROR	34.3	35.7	35.9	79.4	24.8	17.4
% WITH CAPABILITY	6.1	5.7	8.1	2.0	20.5	36.2

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STATE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
MASSACHUSETTS								
ESTIMATED POPULATION	102	744	436	1,910	2,315	2,110	1,509	529
% STANDARD ERROR	62.7	24.1	31.6	14.4	13.3	13.9	16.4	26.8
% WITH CAPABILITY	3.2	23.0	13.5	59.0	71.5	65.2	46.6	16.3
MICHIGAN								
ESTIMATED POPULATION	166	1,535	907	3,828	3,990	3,437	2,262	760
% STANDARD ERROR	53.0	16.2	19.4	9.9	9.8	10.4	12.7	20.7
% WITH CAPABILITY	2.3	21.6	12.8	54.0	56.3	48.5	31.9	10.7
MINNESOTA								
ESTIMATED POPULATION	294	1,623	318	2,622	2,574	2,729	1,449	596
% STANDARD ERROR	36.4	15.2	33.5	11.7	12.0	11.7	15.4	22.6
% WITH CAPABILITY	4.8	26.2	5.1	42.3	41.6	44.1	23.4	9.6
MISSISSIPPI								
ESTIMATED POPULATION	111	573	83	807	856	1,003	643	196
% STANDARD ERROR	56.1	26.8	63.0	21.1	20.6	18.9	23.0	37.0
% WITH CAPABILITY	5.5	28.5	4.1	40.2	42.7	50.0	32.1	9.8
MISSOURI								
ESTIMATED POPULATION	115	1,281	418	1,981	2,204	2,004	1,337	795
% STANDARD ERROR	51.9	18.0	29.6	13.7	13.0	13.7	16.2	20.6
% WITH CAPABILITY	2.4	27.2	8.9	42.1	46.9	42.6	28.4	16.9
MONTANA								
ESTIMATED POPULATION	0	516	158	924	1,149	922	656	151
% STANDARD ERROR	0.0	27.6	54.7	20.3	18.5	20.1	23.6	45.3
% WITH CAPABILITY	0.0	22.9	7.0	40.9	50.9	40.8	29.1	6.7
NEBRASKA								
ESTIMATED POPULATION	29	552	217	934	970	851	465	260
% STANDARD ERROR	98.0	26.2	45.5	20.0	19.7	20.5	26.3	34.8
% WITH CAPABILITY	1.2	22.0	8.6	37.2	38.6	33.9	18.5	10.4

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STATE	LONG RANGE NAVIGATION EQUIPMENT							OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR	LORAN-----				
MASSACHUSETTS									
ESTIMATED POPULATION	290	1,436	262	24			25	18	
% STANDARD ERROR	38.3	16.5	39.2	83.1			90.5	*	
% WITH CAPABILITY	8.9	44.4	8.1	0.7			0.8	0.6	
MICHIGAN									
ESTIMATED POPULATION	600	3,015	496	48			159	58	
% STANDARD ERROR	25.4	11.4	27.7	83.4			35.9	63.2	
% WITH CAPABILITY	8.5	42.5	7.0	0.7			2.2	0.8	
MINNESOTA									
ESTIMATED POPULATION	251	1,865	169	46			60	4	
% STANDARD ERROR	29.5	13.7	43.9	70.5			56.1	*	
% WITH CAPABILITY	4.1	30.1	2.7	0.7			1.0	0.1	
MISSISSIPPI									
ESTIMATED POPULATION	97	830	163	16			31	9	
% STANDARD ERROR	47.5	21.5	47.5	96.7			82.0	*	
% WITH CAPABILITY	4.9	41.4	8.1	0.8			1.5	0.4	
MISSOURI									
ESTIMATED POPULATION	366	1,368	300	75			81	33	
% STANDARD ERROR	28.9	16.4	32.7	54.5			44.1	76.0	
% WITH CAPABILITY	7.8	29.1	6.4	1.6			1.7	0.7	
MONTANA									
ESTIMATED POPULATION	94	592	97	28			7	5	
% STANDARD ERROR	61.0	26.4	58.8	*			*	*	
% WITH CAPABILITY	4.2	26.2	4.3	1.2			0.3	0.2	
NEBRASKA									
ESTIMATED POPULATION	130	423	191	28			44	10	
% STANDARD ERROR	42.8	28.1	44.2	93.0			65.7	*	
% WITH CAPABILITY	5.2	16.8	7.6	1.1			1.7	0.4	

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STATE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
MASSACHUSETTS						
ESTIMATED POPULATION	314	187	406	105	272	818
% STANDARD ERROR	33.5	41.9	30.0	43.5	38.5	22.0
% WITH CAPABILITY	9.7	5.8	12.5	3.2	8.4	25.3
MICHIGAN						
ESTIMATED POPULATION	417	559	861	161	647	2,228
% STANDARD ERROR	22.1	20.1	20.5	39.8	21.5	12.5
% WITH CAPABILITY	5.9	7.9	12.1	2.3	9.1	31.4
MINNESOTA						
ESTIMATED POPULATION	204	345	380	156	651	2,773
% STANDARD ERROR	34.1	26.4	28.8	47.9	22.2	10.9
% WITH CAPABILITY	3.3	5.6	6.1	2.5	10.5	44.8
MISSISSIPPI						
ESTIMATED POPULATION	112	200	89	34	95	725
% STANDARD ERROR	46.5	35.0	58.6	92.0	56.2	20.8
% WITH CAPABILITY	5.6	10.0	4.5	1.7	4.7	36.1
MISSOURI						
ESTIMATED POPULATION	467	470	646	66	537	1,845
% STANDARD ERROR	24.9	24.3	23.9	41.9	25.7	14.5
% WITH CAPABILITY	9.9	10.0	13.7	1.4	11.4	39.2
MONTANA						
ESTIMATED POPULATION	97	93	67	25	390	975
% STANDARD ERROR	54.3	53.4	71.6	*	30.6	19.1
% WITH CAPABILITY	4.3	4.1	3.0	1.1	17.3	43.2
NEBRASKA						
ESTIMATED POPULATION	185	173	109	44	192	1,374
% STANDARD ERROR	38.9	38.5	52.8	88.4	41.4	15.3
% WITH CAPABILITY	7.3	6.9	4.3	1.8	7.6	54.7

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STATE	BASIC NAVIGATION EQUIPMENT									
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV		
NEVADA										
ESTIMATED POPULATION	27	578	248	1,379	1,410	1,214	937	343		
% STANDARD ERROR	75.8	25.3	37.7	15.7	16.1	17.1	19.1	30.7		
% WITH CAPABILITY	1.2	25.1	10.8	59.9	61.2	52.7	40.7	14.9		
NEW HAMPSHIRE										
ESTIMATED POPULATION	84	462	149	755	783	774	439	131		
% STANDARD ERROR	67.0	28.1	50.7	22.1	21.6	21.7	27.7	42.8		
% WITH CAPABILITY	4.2	22.9	7.4	37.4	38.8	38.4	21.8	6.5		
NEW JERSEY										
ESTIMATED POPULATION	136	691	782	2,266	2,509	2,375	1,925	815		
% STANDARD ERROR	57.0	24.1	22.8	12.7	12.2	12.6	13.7	20.5		
% WITH CAPABILITY	3.6	18.3	20.7	60.0	66.4	62.9	51.0	21.6		
NEW MEXICO										
ESTIMATED POPULATION	202	498	134	888	1,312	1,163	1,005	344		
% STANDARD ERROR	45.1	27.8	51.8	19.9	16.9	17.6	18.8	29.4		
% WITH CAPABILITY	7.8	19.1	5.2	34.1	50.4	44.7	38.6	13.2		
NEW YORK										
ESTIMATED POPULATION	714	1,656	472	3,480	3,624	3,111	1,827	644		
% STANDARD ERROR	24.5	15.0	27.5	10.4	10.2	11.0	13.8	22.2		
% WITH CAPABILITY	10.8	25.0	7.1	52.5	54.7	47.0	27.6	9.7		
NORTH CAROLINA										
ESTIMATED POPULATION	267	1,270	474	2,622	2,779	2,327	1,737	696		
% STANDARD ERROR	37.7	18.5	28.3	12.2	12.0	13.0	14.7	23.6		
% WITH CAPABILITY	6.1	28.8	10.8	59.6	63.1	52.9	39.5	15.8		
NORTH DAKOTA										
ESTIMATED POPULATION	146	507	127	565	854	571	452	225		
% STANDARD ERROR	51.6	29.2	56.2	26.2	21.7	26.1	29.7	39.6		
% WITH CAPABILITY	6.8	23.7	5.9	26.4	39.9	26.7	21.1	10.5		

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LONG RANGE NAVIGATION EQUIPMENT

STATE	LORAN-----					OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR			
NEVADA							
ESTIMATED POPULATION	154	895	79	32	39	1	1
% STANDARD ERROR	41.0	20.4	61.9	98.3	51.1	52.7	52.7
% WITH CAPABILITY	6.7	38.9	3.4	1.4	1.7	0.0	0.0
NEW HAMPSHIRE							
ESTIMATED POPULATION	98	568	88	5	10	1	1
% STANDARD ERROR	61.5	25.7	61.1	*	*	*	*
% WITH CAPABILITY	4.9	28.1	4.3	0.3	0.5	0.0	0.0
NEW JERSEY							
ESTIMATED POPULATION	437	1,490	380	0	110	26	26
% STANDARD ERROR	27.2	16.0	28.5	0.0	41.9	83.4	83.4
% WITH CAPABILITY	11.6	39.4	10.1	0.0	2.9	0.7	0.7
NEW MEXICO							
ESTIMATED POPULATION	260	586	95	0	38	2	2
% STANDARD ERROR	37.3	24.6	64.3	0.0	78.8	*	*
% WITH CAPABILITY	10.0	22.5	3.6	0.0	1.5	0.1	0.1
NEW YORK							
ESTIMATED POPULATION	384	2,546	296	166	87	65	65
% STANDARD ERROR	28.5	12.5	33.7	49.1	34.1	36.7	36.7
% WITH CAPABILITY	5.8	38.4	4.5	2.5	1.3	1.0	1.0
NORTH CAROLINA							
ESTIMATED POPULATION	222	2,039	114	32	47	9	9
% STANDARD ERROR	39.0	13.9	76.3	92.3	47.1	100.0	100.0
% WITH CAPABILITY	5.0	46.3	2.6	0.7	1.1	0.2	0.2
NORTH DAKOTA							
ESTIMATED POPULATION	87	300	94	39	10	0	0
% STANDARD ERROR	65.8	34.9	65.9	95.7	*	0.0	0.0
% WITH CAPABILITY	4.0	14.0	4.4	1.8	0.4	0.0	0.0

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STATE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
NEVADA						
ESTIMATED POPULATION	101	146	195	73	159	736
% STANDARD ERROR	42.3	40.3	42.0	63.8	43.8	19.3
% WITH CAPABILITY	4.4	6.3	8.5	3.2	6.9	32.0
NEW HAMPSHIRE						
ESTIMATED POPULATION	68	74	63	38	159	1,024
% STANDARD ERROR	52.0	52.3	62.0	89.8	41.4	18.5
% WITH CAPABILITY	3.4	3.7	3.1	1.9	7.9	50.7
NEW JERSEY						
ESTIMATED POPULATION	439	436	642	23	412	892
% STANDARD ERROR	24.5	24.0	23.8	79.4	28.5	20.4
% WITH CAPABILITY	11.6	11.5	17.0	0.6	10.9	23.6
NEW MEXICO						
ESTIMATED POPULATION	233	194	238	24	441	1,219
% STANDARD ERROR	34.3	35.8	38.6	91.4	28.5	16.0
% WITH CAPABILITY	9.0	7.5	9.1	0.9	17.0	46.9
NEW YORK						
ESTIMATED POPULATION	390	332	544	119	460	2,310
% STANDARD ERROR	24.6	23.4	23.3	40.1	27.7	12.3
% WITH CAPABILITY	5.9	5.0	8.2	1.8	6.9	34.9
NORTH CAROLINA						
ESTIMATED POPULATION	264	631	735	72	679	1,072
% STANDARD ERROR	37.9	23.4	22.0	56.7	24.8	18.2
% WITH CAPABILITY	6.0	14.3	16.7	1.6	15.4	24.4
NORTH DAKOTA						
ESTIMATED POPULATION	67	134	66	32	320	1,231
% STANDARD ERROR	69.8	50.5	73.3	*	35.5	16.5
% WITH CAPABILITY	3.1	6.3	3.1	1.5	14.9	57.5

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STATE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
OHIO								
ESTIMATED POPULATION	146	1,575	506	3,966	4,157	3,656	1,945	836
% STANDARD ERROR	45.9	16.0	27.7	9.7	9.5	10.1	13.1	18.7
% WITH CAPABILITY	2.2	23.8	7.6	59.8	62.7	55.1	29.3	12.6
OKLAHOMA								
ESTIMATED POPULATION	255	928	326	2,178	2,275	2,077	1,395	564
% STANDARD ERROR	40.8	21.3	35.6	13.1	13.0	13.5	16.3	23.7
% WITH CAPABILITY	6.3	23.1	8.1	54.1	56.6	51.6	34.7	14.0
OREGON								
ESTIMATED POPULATION	242	719	473	2,471	2,562	2,364	1,792	588
% STANDARD ERROR	41.8	22.4	26.7	12.2	11.8	12.3	14.1	23.4
% WITH CAPABILITY	4.9	14.5	9.5	49.7	51.6	47.6	36.1	11.8
PENNSYLVANIA								
ESTIMATED POPULATION	355	1,574	588	3,346	3,488	3,143	2,283	987
% STANDARD ERROR	35.3	16.0	24.8	10.8	10.5	11.1	12.9	18.9
% WITH CAPABILITY	5.8	25.6	9.5	54.4	56.7	51.1	37.1	16.0
RHODE ISLAND								
ESTIMATED POPULATION	25	155	100	408	439	398	287	105
% STANDARD ERROR	*	52.8	62.1	31.1	29.8	31.3	36.1	56.8
% WITH CAPABILITY	2.9	17.6	11.4	46.5	50.0	45.3	32.7	12.0
SOUTH CAROLINA								
ESTIMATED POPULATION	34	527	207	1,083	1,259	1,036	684	289
% STANDARD ERROR	*	28.4	40.6	18.5	17.7	19.4	22.8	33.5
% WITH CAPABILITY	1.4	22.6	8.9	46.5	54.1	44.5	29.4	12.4
SOUTH DAKOTA								
ESTIMATED POPULATION	10	366	41	337	494	447	384	105
% STANDARD ERROR	*	32.3	86.4	32.4	28.1	29.2	31.1	54.6
% WITH CAPABILITY	0.5	19.9	2.2	18.3	26.8	24.3	20.8	5.7

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY STATE OF BASED AIRCRAFT
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LONG RANGE NAVIGATION EQUIPMENT

STATE	-----LORAN-----						OMEGA	OTHER LRNAV
	L	R	NAV	VFR ONLY	IFR NAV	APP IFR		
-----LORAN-----								
OHIO								
ESTIMATED POPULATION	345			2,614	377	42	184	35
% STANDARD ERROR	24.2			12.0	28.6	70.1	29.5	75.9
% WITH CAPABILITY	5.2			39.4	5.7	0.6	2.8	0.5
OKLAHOMA								
ESTIMATED POPULATION	295			1,518	99	1	93	90
% STANDARD ERROR	32.3			15.9	66.5	*	43.2	66.9
% WITH CAPABILITY	7.3			37.7	2.5	0.0	2.3	2.2
OREGON								
ESTIMATED POPULATION	146			2,133	281	79	72	37
% STANDARD ERROR	35.8			13.1	33.3	53.4	40.9	*
% WITH CAPABILITY	2.9			42.9	5.7	1.6	1.4	0.7
PENNSYLVANIA								
ESTIMATED POPULATION	452			2,485	460	56	135	0
% STANDARD ERROR	24.3			12.3	27.6	76.8	46.1	0.0
% WITH CAPABILITY	7.4			40.4	7.5	0.9	2.2	0.0
RHODE ISLAND								
ESTIMATED POPULATION	23			279	89	1	2	0
% STANDARD ERROR	*			39.7	62.4	*	*	0.0
% WITH CAPABILITY	2.6			31.8	10.1	0.2	0.3	0.0
SOUTH CAROLINA								
ESTIMATED POPULATION	73			742	49	0	32	11
% STANDARD ERROR	74.2			22.7	75.9	0.0	96.6	*
% WITH CAPABILITY	3.1			31.9	2.1	0.0	1.4	0.5
SOUTH DAKOTA								
ESTIMATED POPULATION	21			258	33	1	6	17
% STANDARD ERROR	*			37.8	*	*	*	*
% WITH CAPABILITY	1.1			14.0	1.8	0.1	0.4	0.9

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
OHIO						
ESTIMATED POPULATION	482	711	658	55	536	1,779
% STANDARD ERROR	21.0	19.2	23.0	37.8	27.2	14.1
% WITH CAPABILITY	7.3	10.7	9.9	0.8	8.1	26.8
OKLAHOMA						
ESTIMATED POPULATION	316	411	299	88	459	1,168
% STANDARD ERROR	29.4	26.9	32.7	55.5	27.1	17.3
% WITH CAPABILITY	7.9	10.2	7.4	2.2	11.4	29.0
OREGON						
ESTIMATED POPULATION	354	409	298	84	715	1,552
% STANDARD ERROR	25.4	24.9	34.4	50.7	21.1	15.1
% WITH CAPABILITY	7.1	8.2	6.0	1.7	14.4	31.2
PENNSYLVANIA						
ESTIMATED POPULATION	465	626	579	23	434	1,933
% STANDARD ERROR	25.4	22.5	25.3	95.3	27.6	13.0
% WITH CAPABILITY	7.5	10.2	9.4	0.4	7.0	31.4
RHODE ISLAND						
ESTIMATED POPULATION	12	59	105	0	31	353
% STANDARD ERROR	*	70.9	57.2	0.0	*	35.5
% WITH CAPABILITY	1.4	6.7	11.9	0.0	3.5	40.2
SOUTH CAROLINA						
ESTIMATED POPULATION	156	169	256	27	324	847
% STANDARD ERROR	43.2	42.0	35.9	*	32.4	19.8
% WITH CAPABILITY	6.7	7.3	11.0	1.2	13.9	36.4
SOUTH DAKOTA						
ESTIMATED POPULATION	47	59	50	38	116	1,187
% STANDARD ERROR	72.0	66.1	87.0	92.1	55.3	16.2
% WITH CAPABILITY	2.5	3.2	2.7	2.1	6.3	64.4

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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BASIC NAVIGATION EQUIPMENT

STATE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
TENNESSEE								
ESTIMATED POPULATION	53	730	523	2,030	2,289	2,155	1,522	520
% STANDARD ERROR	63.0	24.7	28.0	13.6	12.9	13.4	15.3	24.3
% WITH CAPABILITY	1.5	20.4	14.6	56.8	64.1	60.3	42.6	14.6
TEXAS								
ESTIMATED POPULATION	459	3,551	1,235	7,535	8,291	8,032	6,100	2,329
% STANDARD ERROR	27.1	10.5	17.6	7.0	6.6	6.7	7.5	11.5
% WITH CAPABILITY	3.1	24.4	8.5	51.7	56.9	55.2	41.9	16.0
UTAH								
ESTIMATED POPULATION	97	364	208	902	777	647	435	158
% STANDARD ERROR	63.5	33.2	45.8	20.1	21.7	23.3	27.1	40.4
% WITH CAPABILITY	4.6	17.4	9.9	43.0	37.0	30.8	20.7	7.5
VERMONT								
ESTIMATED POPULATION	61	147	48	262	286	223	145	36
% STANDARD ERROR	81.6	52.1	85.0	36.6	37.7	41.4	51.2	89.7
% WITH CAPABILITY	5.9	14.2	4.7	25.3	27.6	21.5	14.0	3.4
VIRGINIA								
ESTIMATED POPULATION	162	931	468	1,839	2,022	1,681	1,355	500
% STANDARD ERROR	47.0	20.2	29.7	14.2	13.6	14.7	16.2	24.3
% WITH CAPABILITY	4.2	24.0	12.0	47.3	52.0	43.2	34.8	12.8
WASHINGTON								
ESTIMATED POPULATION	491	1,348	680	2,890	3,005	2,850	1,412	386
% STANDARD ERROR	28.5	16.8	23.5	11.4	11.5	11.6	16.6	29.3
% WITH CAPABILITY	7.5	20.5	10.3	43.9	45.7	43.3	21.5	5.9
WEST VIRGINIA								
ESTIMATED POPULATION	33	273	32	622	616	612	512	76
% STANDARD ERROR	*	40.8	89.5	25.3	26.2	25.5	28.6	60.6
% WITH CAPABILITY	2.1	17.4	2.1	39.7	39.3	39.1	32.7	4.8

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY STATE OF BASED AIRCRAFT
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LONG RANGE NAVIGATION EQUIPMENT

STATE	-----LORAN-----					OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR			
TENNESSEE							
ESTIMATED POPULATION	156	1,386	273	102	72	2	
% STANDARD ERROR	36.9	17.0	34.2	60.4	53.9	*	
% WITH CAPABILITY	4.4	38.8	7.6	2.9	2.0	0.0	
TEXAS							
ESTIMATED POPULATION	1,258	4,797	1,090	105	163	135	
% STANDARD ERROR	15.8	8.8	17.4	53.8	23.0	51.8	
% WITH CAPABILITY	8.6	32.9	7.5	0.7	1.1	0.9	
UTAH							
ESTIMATED POPULATION	21	537	50	9	21	50	
% STANDARD ERROR	*	25.9	66.5	*	*	95.4	
% WITH CAPABILITY	1.0	25.6	2.4	0.4	1.0	2.4	
VERMONT							
ESTIMATED POPULATION	5	245	8	1	0	0	
% STANDARD ERROR	*	40.1	*	*	0.0	0.0	
% WITH CAPABILITY	0.5	23.6	0.8	0.1	0.0	0.0	
VIRGINIA							
ESTIMATED POPULATION	212	1,170	296	78	93	41	
% STANDARD ERROR	31.9	17.5	33.5	56.5	44.5	78.4	
% WITH CAPABILITY	5.4	30.1	7.6	2.0	2.4	1.1	
WASHINGTON							
ESTIMATED POPULATION	258	2,197	171	29	50	14	
% STANDARD ERROR	36.5	13.1	42.5	*	64.7	*	
% WITH CAPABILITY	3.9	33.4	2.6	0.4	0.8	0.2	
WEST VIRGINIA							
ESTIMATED POPULATION	123	553	71	28	9	2	
% STANDARD ERROR	59.0	27.1	66.7	*	*	*	
% WITH CAPABILITY	7.8	35.3	4.5	1.8	0.6	0.1	

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY STATE OF BASED AIRCRAFT
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STATE	OTHER			NAVIGATION	EQUIPMENT	
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
TENNESSEE						
ESTIMATED POPULATION	210	417	596	18	332	863
% STANDARD ERROR	34.8	24.7	25.7	*	30.2	20.9
% WITH CAPABILITY	5.9	11.7	16.7	0.5	9.3	24.2
TEXAS						
ESTIMATED POPULATION	1,322	1,364	1,759	271	2,358	4,380
% STANDARD ERROR	14.4	13.6	13.8	30.1	11.8	8.5
% WITH CAPABILITY	9.1	9.4	12.1	1.9	16.2	30.1
UTAH						
ESTIMATED POPULATION	148	90	133	16	157	1,080
% STANDARD ERROR	40.7	55.0	50.7	*	47.5	18.9
% WITH CAPABILITY	7.0	4.3	6.3	0.8	7.5	51.5
VERMONT						
ESTIMATED POPULATION	16	18	20	0	109	693
% STANDARD ERROR	*	*	*	0.0	54.6	21.7
% WITH CAPABILITY	1.5	1.7	2.0	0.0	10.5	66.9
VIRGINIA						
ESTIMATED POPULATION	274	382	381	88	552	1,545
% STANDARD ERROR	29.4	25.7	29.5	60.6	25.4	14.3
% WITH CAPABILITY	7.0	9.8	9.8	2.3	14.2	39.7
WASHINGTON						
ESTIMATED POPULATION	286	238	190	77	981	2,417
% STANDARD ERROR	29.7	33.7	40.6	53.1	19.9	11.4
% WITH CAPABILITY	4.3	3.6	2.9	1.2	14.9	36.7
WEST VIRGINIA						
ESTIMATED POPULATION	85	90	71	6	162	787
% STANDARD ERROR	49.5	57.5	70.3	*	52.3	22.7
% WITH CAPABILITY	5.4	5.8	4.5	0.4	10.4	50.3

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
WISCONSIN								
ESTIMATED POPULATION	218	1,188	340	2,321	2,238	2,074	1,250	524
% STANDARD ERROR	42.8	17.7	33.8	13.0	13.2	13.7	17.1	25.3
% WITH CAPABILITY	4.6	25.3	7.2	49.4	47.6	44.1	26.6	11.2
WYOMING								
ESTIMATED POPULATION	3	320	20	460	306	377	189	107
% STANDARD ERROR	*	34.5	*	27.7	32.8	30.2	39.3	48.4
% WITH CAPABILITY	0.2	25.5	1.6	36.8	24.4	30.1	15.1	8.5
PUERTO RICO								
ESTIMATED POPULATION	29	303	133	339	646	580	430	74
% STANDARD ERROR	93.7	38.9	59.5	34.2	25.0	25.6	29.3	61.3
% WITH CAPABILITY	2.9	30.4	13.3	33.9	64.7	58.1	43.1	7.4
OTHER U.S. TERRITORIES								
ESTIMATED POPULATION	1	1	59	105	99	148	92	3
% STANDARD ERROR	*	*	60.8	46.7	48.8	37.5	47.8	*
% WITH CAPABILITY	0.6	0.7	32.7	58.1	55.0	81.8	51.0	1.8
TOTAL ALL AIRCRAFT								
ESTIMATED POPULATION	8,901	48,707	20,550	111,240	118,514	110,127	76,837	27,857
% STANDARD ERROR	6.4	2.4	4.1	1.2	0.8	1.0	1.4	2.7
% WITH CAPABILITY	3.6	20.0	8.4	45.6	48.6	45.1	31.5	11.4

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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LONG RANGE NAVIGATION EQUIPMENT

STATE	LONG RANGE NAVIGATION EQUIPMENT							OTHER LRNAV
	L	R	NAV	VFR ONLY	IFR NAV	APP	IFR	
	-----LORAN-----							
WISCONSIN	277			1,712	288	29		3
ESTIMATED POPULATION	35.6			15.6	34.9	88.4		*
% STANDARD ERROR	5.9			36.4	6.1	0.6		0.1
% WITH CAPABILITY								
WYOMING	9			264	16	0		10
ESTIMATED POPULATION	*			37.7	*	0.0		*
% STANDARD ERROR	0.7			21.1	1.3	0.0		0.8
% WITH CAPABILITY								
PUERTO RICO	37			215	55	37		0
ESTIMATED POPULATION	*			46.8	78.5	*		0.0
% STANDARD ERROR	3.7			21.5	5.5	3.7		0.0
% WITH CAPABILITY								
OTHER U.S. TERRITORIES	8			68	3	3		0
ESTIMATED POPULATION	*			51.5	*	*		0.0
% STANDARD ERROR	4.4			37.6	1.7	1.7		0.0
% WITH CAPABILITY								
TOTAL ALL AIRCRAFT	13,676			76,287	12,033	2,468		1,229
ESTIMATED POPULATION	4.4			1.7	5.1	11.2		12.8
% STANDARD ERROR	5.6			31.3	4.9	1.0		0.5
% WITH CAPABILITY								

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.14 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
WISCONSIN						
ESTIMATED POPULATION	321	312	463	131	505	1,626
% STANDARD ERROR	28.6	29.9	27.4	53.1	26.1	14.3
% WITH CAPABILITY	6.8	6.6	9.8	2.8	10.7	34.6
WYOMING						
ESTIMATED POPULATION	48	73	80	20	77	674
% STANDARD ERROR	66.7	59.7	63.4	*	60.3	22.6
% WITH CAPABILITY	3.9	5.9	6.4	1.6	6.1	53.8
PUERTO RICO						
ESTIMATED POPULATION	93	103	18	16	106	375
% STANDARD ERROR	65.6	63.1	*	*	58.7	34.2
% WITH CAPABILITY	9.3	10.3	1.8	1.6	10.6	37.5
OTHER U.S. TERRITORIES						
ESTIMATED POPULATION	0	21	16	0	123	23
% STANDARD ERROR	0.0	89.5	*	0.0	39.8	83.3
% WITH CAPABILITY	0.0	11.7	9.1	0.0	68.0	12.5
TOTAL ALL AIRCRAFT	16,079	18,373	19,724	3,633	28,866	74,346
ESTIMATED POPULATION	3.0	2.4	3.6	8.1	3.2	1.5
% STANDARD ERROR	6.6	7.5	8.1	1.5	11.8	30.5

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
1 TO 5 YEARS OLD								
ESTIMATED POPULATION	306	599	1,024	4,528	3,595	3,690	3,381	1,449
% STANDARD ERROR	37.3	21.5	19.7	7.6	8.3	7.9	8.4	12.8
% WITH CAPABILITY	0.7	1.4	2.3	10.3	8.2	8.4	7.7	3.3
6 TO 10 YEARS OLD								
ESTIMATED POPULATION	166	737	835	4,757	4,825	4,934	4,574	2,996
% STANDARD ERROR	43.6	18.5	20.3	7.5	7.1	7.0	7.2	8.8
% WITH CAPABILITY	0.5	2.0	2.3	13.0	13.2	13.5	12.5	8.2
11 TO 15 YEARS OLD								
ESTIMATED POPULATION	830	4,366	2,338	17,246	19,019	18,963	16,231	7,719
% STANDARD ERROR	21.2	9.3	12.6	4.3	4.0	4.0	4.3	6.0
% WITH CAPABILITY	2.2	11.5	6.2	45.5	50.2	50.0	42.8	20.4
16 TO 20 YEARS OLD								
ESTIMATED POPULATION	1,892	8,810	3,459	25,814	29,080	28,216	20,579	7,654
% STANDARD ERROR	14.7	6.6	10.5	3.5	3.2	3.2	3.8	6.2
% WITH CAPABILITY	6.4	29.7	11.7	87.2	98.2	95.3	69.5	25.8
21 TO 25 YEARS OLD								
ESTIMATED POPULATION	1,133	6,012	2,681	13,872	15,555	14,866	9,815	3,107
% STANDARD ERROR	18.9	8.0	12.1	5.1	4.7	4.9	6.0	10.3
% WITH CAPABILITY	4.6	24.4	10.9	56.3	63.1	60.3	39.8	12.6
26 TO 30 YEARS OLD								
ESTIMATED POPULATION	1,465	9,476	2,981	17,059	19,887	17,075	10,044	2,336
% STANDARD ERROR	16.5	6.4	11.7	4.5	4.1	4.4	5.7	11.8
% WITH CAPABILITY	26.8	100.0	54.6	100.0	100.0	100.0	100.0	42.8

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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LONG RANGE NAVIGATION EQUIPMENT

AGE OF AIRCRAFT	LORAN						OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR				
1 TO 5 YEARS OLD								
ESTIMATED POPULATION	1,085	2,518	1,096	231			528	166
% STANDARD ERROR	14.3	11.1	14.5	29.0			18.6	34.3
% WITH CAPABILITY	2.5	5.7	2.5	0.5			1.2	0.4
6 TO 10 YEARS OLD								
ESTIMATED POPULATION	1,263	3,066	1,185	272			704	253
% STANDARD ERROR	12.8	9.5	15.8	29.5			14.2	24.4
% WITH CAPABILITY	3.5	8.4	3.2	0.7			1.9	0.7
11 TO 15 YEARS OLD								
ESTIMATED POPULATION	2,954	10,310	2,193	390			1,028	403
% STANDARD ERROR	9.6	5.7	12.3	26.9			11.2	26.8
% WITH CAPABILITY	7.8	27.2	5.8	1.0			2.7	1.1
16 TO 20 YEARS OLD								
ESTIMATED POPULATION	3,379	16,887	2,928	825			617	72
% STANDARD ERROR	9.9	4.5	11.0	20.9			15.6	65.2
% WITH CAPABILITY	11.4	57.0	9.9	2.8			2.1	0.2
21 TO 25 YEARS OLD								
ESTIMATED POPULATION	1,406	10,320	1,031	123			91	52
% STANDARD ERROR	15.4	6.0	18.2	52.7			40.9	79.3
% WITH CAPABILITY	5.7	41.9	4.2	0.5			0.4	0.2
26 TO 30 YEARS OLD								
ESTIMATED POPULATION	1,311	12,999	1,750	260			214	50
% STANDARD ERROR	16.9	5.3	14.4	38.6			33.7	58.0
% WITH CAPABILITY	24.0	100.0	32.1	4.8			3.9	0.9

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM			
1 TO 5 YEARS OLD								
ESTIMATED POPULATION	1,732	1,370	1,405	491	2,459	3,928		
% STANDARD ERROR	10.9	12.1	13.6	24.9	10.6	8.2		
% WITH CAPABILITY	3.9	3.1	3.2	1.1	5.6	9.0		
6 TO 10 YEARS OLD								
ESTIMATED POPULATION	2,223	2,124	2,347	517	1,538	2,416		
% STANDARD ERROR	8.9	8.9	10.0	19.8	12.9	11.3		
% WITH CAPABILITY	6.1	5.8	6.4	1.4	4.2	6.6		
11 TO 15 YEARS OLD								
ESTIMATED POPULATION	4,401	5,595	5,096	833	4,164	4,575		
% STANDARD ERROR	6.8	6.2	8.0	16.7	8.6	8.6		
% WITH CAPABILITY	11.6	14.8	13.4	2.2	11.0	12.1		
16 TO 20 YEARS OLD								
ESTIMATED POPULATION	3,877	5,196	4,738	594	6,409	8,011		
% STANDARD ERROR	8.3	6.7	8.7	22.4	7.4	6.4		
% WITH CAPABILITY	13.1	17.5	16.0	2.0	21.6	27.0		
21 TO 25 YEARS OLD								
ESTIMATED POPULATION	1,336	1,781	2,522	176	3,583	4,634		
% STANDARD ERROR	14.5	11.9	11.8	37.6	10.0	9.0		
% WITH CAPABILITY	5.4	7.2	10.2	0.7	14.5	18.8		
26 TO 30 YEARS OLD								
ESTIMATED POPULATION	1,186	1,240	2,023	182	3,428	6,609		
% STANDARD ERROR	15.6	13.5	13.0	38.3	10.4	7.4		
% WITH CAPABILITY	21.7	22.7	37.1	3.3	62.8	100.0		

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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BASIC NAVIGATION EQUIPMENT

AGE OF AIRCRAFT	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
31 TO 35 YEARS OLD								
ESTIMATED POPULATION	547	4,810	2,227	9,479	10,318	8,841	5,225	1,140
% STANDARD ERROR	26.5	9.0	12.9	5.8	5.6	6.0	7.7	17.0
% WITH CAPABILITY	14.9	100.0	60.5	100.0	100.0	100.0	100.0	31.0
36 TO 40 YEARS OLD								
ESTIMATED POPULATION	403	2,553	1,159	5,282	4,709	4,020	1,823	301
% STANDARD ERROR	30.3	12.1	18.0	8.1	8.6	9.2	13.8	34.2
% WITH CAPABILITY	9.5	59.9	27.2	100.0	100.0	94.3	42.8	7.1
41 TO 45 YEARS OLD								
ESTIMATED POPULATION	162	1,356	588	2,504	1,823	1,452	729	78
% STANDARD ERROR	40.5	14.7	24.3	10.2	12.7	14.5	20.4	43.9
% WITH CAPABILITY	10.7	89.0	38.6	100.0	100.0	95.3	47.8	5.1
46 TO 50 YEARS OLD								
ESTIMATED POPULATION	676	2,085	1,183	2,833	1,712	997	387	134
% STANDARD ERROR	20.4	10.8	15.0	8.9	11.7	14.6	22.3	42.7
% WITH CAPABILITY	13.9	42.9	24.3	58.3	35.2	20.5	8.0	2.8
51 TO 55 YEARS OLD								
ESTIMATED POPULATION	140	374	286	574	254	320	165	15
% STANDARD ERROR	33.1	21.5	26.6	18.9	30.1	24.5	35.1	86.7
% WITH CAPABILITY	11.6	31.0	23.7	47.5	21.0	26.5	13.7	1.3
56 TO 60 YEARS OLD								
ESTIMATED POPULATION	40	9	9	40	26	19	16	6
% STANDARD ERROR	96.5	*	*	45.0	68.4	77.7	88.5	*
% WITH CAPABILITY	2.7	0.6	0.6	2.7	1.8	1.3	1.1	0.4

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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LONG RANGE NAVIGATION EQUIPMENT

AGE OF AIRCRAFT	LORAN-----						OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR				
31 TO 35 YEARS OLD								
ESTIMATED POPULATION	1,088	6,920	1,152	186		17	68	
% STANDARD ERROR	18.8	7.2	18.3	43.4		53.9	72.6	
% WITH CAPABILITY	29.6	100.0	31.3	5.1		0.4	1.8	
36 TO 40 YEARS OLD								
ESTIMATED POPULATION	265	4,003	99	24		6	17	
% STANDARD ERROR	33.4	9.4	60.2	81.9		47.9	91.5	
% WITH CAPABILITY	6.2	93.9	2.3	0.6		0.1	0.4	
41 TO 45 YEARS OLD								
ESTIMATED POPULATION	46	1,785	36	3		2	2	
% STANDARD ERROR	83.4	12.5	59.7	*		*	*	
% WITH CAPABILITY	3.0	100.0	2.4	0.2		0.1	0.2	
46 TO 50 YEARS OLD								
ESTIMATED POPULATION	79	1,969	65	0		26	8	
% STANDARD ERROR	57.1	10.9	67.3	0.0		90.9	*	
% WITH CAPABILITY	1.6	40.5	1.3	0.0		0.5	0.2	
51 TO 55 YEARS OLD								
ESTIMATED POPULATION	21	556	10	2		0	2	
% STANDARD ERROR	88.0	18.3	85.9	*		0.0	*	
% WITH CAPABILITY	1.7	46.1	0.8	0.2		0.0	0.2	
56 TO 60 YEARS OLD								
ESTIMATED POPULATION	4	32	6	0		0	0	
% STANDARD ERROR	*	60.1	*	0.0		0.0	0.0	
% WITH CAPABILITY	0.3	2.2	0.4	0.0		0.0	0.0	

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
31 TO 35 YEARS OLD						
ESTIMATED POPULATION	417	146	863	76	2,217	3,439
% STANDARD ERROR	28.9	36.7	19.1	56.9	12.8	10.3
% WITH CAPABILITY	11.3	4.0	23.4	2.1	60.2	93.4
36 TO 40 YEARS OLD						
ESTIMATED POPULATION	91	52	78	49	1,319	2,536
% STANDARD ERROR	45.2	64.0	51.7	73.6	16.9	12.2
% WITH CAPABILITY	2.1	1.2	1.8	1.2	30.9	59.5
41 TO 45 YEARS OLD						
ESTIMATED POPULATION	51	16	56	5	692	1,967
% STANDARD ERROR	75.5	69.9	83.9	*	21.1	11.7
% WITH CAPABILITY	3.3	1.0	3.7	0.3	45.4	100.0
46 TO 50 YEARS OLD						
ESTIMATED POPULATION	12	7	83	189	1,281	8,281
% STANDARD ERROR	*	*	43.1	38.2	13.8	5.1
% WITH CAPABILITY	0.2	0.1	1.7	3.9	26.4	100.0
51 TO 55 YEARS OLD						
ESTIMATED POPULATION	146	15	8	45	230	2,466
% STANDARD ERROR	37.7	*	*	49.3	31.1	8.0
% WITH CAPABILITY	12.1	1.3	0.6	3.7	19.1	100.0
56 TO 60 YEARS OLD						
ESTIMATED POPULATION	0	0	0	1	6	264
% STANDARD ERROR	0.0	0.0	0.0	80.9	*	30.9
% WITH CAPABILITY	0.0	0.0	0.0	0.1	0.4	18.2

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
OVER 60 YEARS OLD								
ESTIMATED POPULATION	63	88	45	311	319	284	217	77
% STANDARD ERROR	83.8	61.1	*	32.5	34.1	36.1	41.6	60.4
% WITH CAPABILITY	14.9	20.9	10.7	73.7	75.8	67.5	51.4	18.3
YEAR MANUFACTURE UNK								
ESTIMATED POPULATION	1,080	7,432	1,736	6,941	7,392	6,450	3,652	843
% STANDARD ERROR	18.6	6.8	14.7	6.8	6.8	7.0	9.1	17.6
% WITH CAPABILITY	2.2	15.3	3.6	14.3	15.2	13.3	7.5	1.7
TOTAL ALL AIRCRAFT								
ESTIMATED POPULATION	8,901	48,707	20,550	111,240	118,514	110,127	76,837	27,857
% STANDARD ERROR	6.4	2.4	4.1	1.2	0.8	1.0	1.4	2.7
% WITH CAPABILITY	3.6	20.0	8.4	45.6	48.6	45.1	31.5	11.4

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	LONG RANGE NAVIGATION EQUIPMENT						OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR	LORAN			
OVER 60 YEARS OLD								
ESTIMATED POPULATION	144	167	83	0			18	0
% STANDARD ERROR	55.6	41.8	72.8	0.0			95.1	0.0
% WITH CAPABILITY	34.2	39.5	19.8	0.0			4.3	0.0
YEAR MANUFACTURE UNK								
ESTIMATED POPULATION	632	4,754	400	151			106	136
% STANDARD ERROR	22.0	8.6	28.0	45.5			48.4	54.6
% WITH CAPABILITY	1.3	9.8	0.8	0.3			0.2	0.3
TOTAL ALL AIRCRAFT								
ESTIMATED POPULATION	13,676	76,287	12,033	2,468			3,356	1,229
% STANDARD ERROR	4.4	1.7	5.1	11.2			5.0	12.8
% WITH CAPABILITY	5.6	31.3	4.9	1.0			1.4	0.5

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.15 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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AGE OF AIRCRAFT	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
OVER 60 YEARS OLD						
ESTIMATED POPULATION	25	25	108	0	23	440
% STANDARD ERROR	81.5	81.5	57.2	0.0	*	26.4
% WITH CAPABILITY	6.0	6.0	25.6	0.0	5.5	100.0
YEAR MANUFACTURE UNK						
ESTIMATED POPULATION	582	807	398	473	1,517	24,779
% STANDARD ERROR	20.0	16.7	28.5	23.8	14.2	3.2
% WITH CAPABILITY	1.2	1.7	0.8	1.0	3.1	51.0
TOTAL ALL AIRCRAFT						
ESTIMATED POPULATION	16,079	18,373	19,724	3,633	28,866	74,346
% STANDARD ERROR	3.0	2.4	3.6	8.1	3.2	1.5
% WITH CAPABILITY	6.6	7.5	8.1	1.5	11.8	30.5

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.16 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPTR	----- LONGITUDE	AUTOPILOT-AXIS CONTROLS----- VERTICAL	APP	EQUIPMENT MODE	AUTO LAND	FL DATA RECORDER	NO GCE
FIXED WING										
FIXED WING - PISTON										
1 ENG: 1-3 SEATS										
ESTIMATED POPULATION	32	97	17	682	211	464	273	3	2	57,815
% STANDARD ERROR	62.4	67.0	*	22.2	36.0	25.5	34.1	*	*	0.9
% WITH CAPABILITY	0.0	0.1	0.0	1.0	0.3	0.7	0.4	0.0	0.0	84.1
1 ENG: 4+ SEATS										
ESTIMATED POPULATION	6,331	474	754	38,761	19,403	30,953	19,543	226	151	58,368
% STANDARD ERROR	6.5	28.4	22.2	2.2	3.6	2.7	3.7	41.6	57.5	1.5
% WITH CAPABILITY	5.8	0.4	0.7	35.5	17.8	28.4	17.9	0.2	0.1	53.5
1 ENGINE: TOTAL										
ESTIMATED POPULATION	6,363	571	772	39,442	19,614	31,417	19,816	230	153	116,183
% STANDARD ERROR	6.5	26.2	21.8	2.2	3.6	2.7	3.7	41.2	57.1	0.9
% WITH CAPABILITY	3.6	0.3	0.4	22.2	11.0	17.7	11.1	0.1	0.1	65.3
2 ENG: 1-6 SEATS										
ESTIMATED POPULATION	3,654	408	306	10,365	10,012	9,729	8,141	124	0	2,776
% STANDARD ERROR	6.6	28.5	29.8	3.0	3.2	3.4	4.1	53.8	0.0	9.4
% WITH CAPABILITY	24.1	2.7	2.0	68.4	66.1	64.2	53.7	0.8	0.0	18.3
2 ENG: 7+ SEATS										
ESTIMATED POPULATION	2,368	148	242	4,487	4,369	4,314	3,994	60	6	1,047
% STANDARD ERROR	8.1	44.9	35.4	3.2	3.6	3.6	4.2	70.8	*	10.6
% WITH CAPABILITY	37.6	2.3	3.8	71.3	69.4	68.6	63.5	1.0	0.1	16.6
2 ENGINE: TOTAL										
ESTIMATED POPULATION	6,021	556	548	14,852	14,381	14,043	12,134	184	6	3,823
% STANDARD ERROR	5.1	24.1	22.8	2.3	2.5	2.6	3.0	43.0	*	7.4
% WITH CAPABILITY	28.1	2.6	2.6	69.3	67.1	65.5	56.6	0.9	0.0	17.8

7.16 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	FLIGHT DIRECT	EFIS	FL MGT COMPT	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA REC'D	NO GCE
				-----	-----	-----	-----			
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
PISTON: OTHER										
ESTIMATED POPULATION	1	0	0	4	4	4	1	0	0	48
% STANDARD ERROR	*	0.0	0.0	94.5	94.5	94.5	*	0.0	0.0	19.7
% WITH CAPABILITY	1.6	0.0	0.0	4.3	4.3	4.3	1.6	0.0	0.0	50.7
PISTON: TOTAL										
ESTIMATED POPULATION	12,386	1,127	1,320	54,298	33,999	45,464	31,952	413	159	120,053
% STANDARD ERROR	4.2	17.8	15.9	1.7	2.3	2.0	2.6	29.8	55.4	0.9
% WITH CAPABILITY	6.2	0.6	0.7	27.2	17.1	22.8	16.0	0.2	0.1	60.2
FIXED WING - TURBOPROP										
1 ENGINE: TOTAL										
ESTIMATED POPULATION	331	16	8	354	354	341	350	0	0	382
% STANDARD ERROR	8.1	80.3	*	6.6	6.5	7.7	6.5	0.0	0.0	6.9
% WITH CAPABILITY	43.7	2.1	1.0	46.7	46.7	45.0	46.2	0.0	0.0	50.4
2 ENG: 1-12 SEATS										
ESTIMATED POPULATION	3,176	338	385	3,451	3,443	3,389	3,336	0	9	102
% STANDARD ERROR	3.7	25.7	22.2	2.6	2.6	2.7	2.9	0.0	72.7	42.1
% WITH CAPABILITY	81.1	8.6	9.8	88.1	87.9	86.5	85.1	0.0	0.2	2.6
2 ENG: 13+ SEATS										
ESTIMATED POPULATION	304	258	234	326	325	326	307	1	74	116
% STANDARD ERROR	11.3	16.0	18.3	9.1	9.1	9.1	9.6	58.6	31.9	18.2
% WITH CAPABILITY	58.1	49.4	44.8	62.3	62.1	62.3	58.8	0.1	14.2	22.1
2 ENGINE: TOTAL										
ESTIMATED POPULATION	3,480	597	620	3,777	3,768	3,716	3,643	1	84	217
% STANDARD ERROR	3.5	16.2	15.5	2.5	2.5	2.6	2.8	58.6	29.4	22.0
% WITH CAPABILITY	78.4	13.4	14.0	85.0	84.8	83.7	82.0	0.0	1.9	4.9

7.16 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPTR	-----AUTOPILOT-AXIS CONTROLS-----			AUTO LAND	FL DATA REC'DR	NO GCE	
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
TURBOPROP: OTHER										
ESTIMATED POPULATION	3	0	0	6	6	6	6	3	31	
% STANDARD ERROR	*	0.0	0.0	98.1	98.1	98.1	98.1	*	33.4	
% WITH CAPABILITY	4.2	0.0	0.0	8.3	8.3	8.3	8.3	4.2	43.8	
TURBOPROP: TOTAL										
ESTIMATED POPULATION	3,814	612	628	4,137	4,128	4,063	3,999	87	630	
% STANDARD ERROR	3.2	15.9	15.4	2.3	2.4	2.5	2.6	28.8	8.8	
% WITH CAPABILITY	72.4	11.6	11.9	78.5	78.3	77.1	75.9	1.6	12.0	
FIXED WING - TURBOJET										
2 ENGINE TURBOJET										
ESTIMATED POPULATION	3,704	1,362	1,803	3,742	3,723	3,747	3,538	437	53	
% STANDARD ERROR	2.6	9.5	7.5	2.6	2.6	2.5	3.1	18.9	37.4	
% WITH CAPABILITY	87.2	32.1	42.5	88.1	87.7	88.2	83.3	10.3	1.2	
TURBOJET: OTHER										
ESTIMATED POPULATION	255	98	135	252	250	251	245	76	77	
% STANDARD ERROR	3.3	20.5	14.8	3.6	3.6	3.6	3.9	26.6	9.5	
% WITH CAPABILITY	58.9	22.8	31.2	58.2	57.8	58.1	56.8	17.7	17.8	
TURBOJET: TOTAL										
ESTIMATED POPULATION	3,959	1,460	1,939	3,993	3,973	3,998	3,784	513	130	
% STANDARD ERROR	2.4	8.9	7.1	2.5	2.4	2.4	2.9	16.6	16.2	
% WITH CAPABILITY	84.6	31.2	41.4	85.3	84.9	85.4	80.9	11.0	2.8	
FIXED WING: TOTAL										
ESTIMATED POPULATION	20,159	3,199	3,886	62,428	42,100	53,525	39,734	759	120,814	
% STANDARD ERROR	2.7	8.1	6.9	1.5	1.9	1.8	2.1	16.5	0.9	
% WITH CAPABILITY	9.6	1.5	1.9	29.8	20.1	25.6	19.0	0.4	57.7	

7.16 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPTR	-----AUTOPILOT-AXIS CONTROLS----- LONGITUDE	VERTICAL	LATERAL	APP MODE	AUTO LAND	FL DATA REC'D	NO GCE
ROTORCRAFT										
PISTON										
ESTIMATED POPULATION	1	0	4	0	0	5	0	0	0	3,272
% STANDARD ERROR	*	0.0	*	0.0	0.0	*	0.0	0.0	0.0	2.9
% WITH CAPABILITY	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	76.9
1 ENG: TURBINE										
ESTIMATED POPULATION	105	5	36	206	203	179	151	0	0	2,262
% STANDARD ERROR	43.5	*	86.8	31.9	32.3	34.1	39.7	0.0	0.0	3.9
% WITH CAPABILITY	3.7	0.2	1.3	7.2	7.1	6.3	5.3	0.0	0.0	79.5
MULTI-ENG: TURBINE										
ESTIMATED POPULATION	269	57	39	317	220	312	271	1	23	412
% STANDARD ERROR	8.4	33.3	34.2	8.3	10.5	8.3	8.6	*	58.6	6.6
% WITH CAPABILITY	33.6	7.1	4.8	39.5	27.4	38.9	33.8	0.1	2.9	51.3
TURBINE TOTAL:										
ESTIMATED POPULATION	374	62	74	523	423	491	422	1	23	2,674
% STANDARD ERROR	13.6	33.2	45.2	13.5	16.4	13.5	15.2	*	58.6	3.4
% WITH CAPABILITY	10.3	1.7	2.0	14.3	11.6	13.5	11.6	0.0	0.6	73.3
ROTORCRAFT: TOTAL										
ESTIMATED POPULATION	376	62	78	523	423	496	422	1	23	5,946
% STANDARD ERROR	13.6	33.2	43.7	13.5	16.4	13.5	15.2	*	58.6	2.2
% WITH CAPABILITY	4.8	0.8	1.0	6.6	5.4	6.3	5.3	0.0	0.3	75.3
OTHER AIRCRAFT										
GLIDERS:										
ESTIMATED POPULATION	3	0	0	0	0	0	0	0	0	2,266
% STANDARD ERROR	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
% WITH CAPABILITY	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.2

7.16 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
EXCLUDES COMMUTER AIRCRAFT

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AIRCRAFT TYPE	FLIGHT DIRECT	EFIS	FL MGT COMPTR	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA RECORDER	NO GCE
				-----AUTOPILOT-AXIS CONTROLS-----	LONGITUDE	VERTICAL	LATERAL	APP MODE		
LIGHTER-THAN-AIR: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	4,680 3.3 85.2
EXPERIMENTAL										
HOME-BUILT: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	37 * 0.3	0 0.0 0.0	0 0.0 0.0	344 38.1 2.7	156 57.0 1.2	174 54.0 1.4	55 96.2 0.4	0 0.0 0.0	41 * 0.3	10,244 3.1 80.8
EXHIBITION: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	11 * 0.4	0 0.0 0.0	1 * 0.0	19 * 0.7	18 * 0.7	20 * 0.8	1 * 0.0	1 * 0.0	52 66.3 2.0	2,054 4.9 78.5
OTHER: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	500 19.3 15.2	119 42.2 3.6	142 38.4 4.3	639 16.6 19.4	583 17.6 17.7	494 19.4 15.0	582 17.6 17.7	0 0.0 0.0	5 * 0.1	2,095 6.2 63.7
TOTAL ALL AIRCRAFT ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	21,086 2.6 8.6	3,380 7.8 1.4	4,108 6.7 1.7	63,954 1.5 26.2	43,281 1.9 17.7	54,708 1.7 22.4	40,794 2.1 16.7	587 23.7 0.2	880 15.8 0.4	148,099 0.8 60.7

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.17 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

PRIMARY USE	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPT	-----AUTOPILOT-AXIS CONTROLS----- LONGITUDE	VERTICAL	LATERAL	APP MODE	AUTO LAND	FL DATA RECDER	NO GCE
EXECUTIVE										
ESTIMATED POPULATION	7,153	1,669	2,226	8,855	8,622	8,643	8,130	180	391	1,324
% STANDARD ERROR	3.6	9.0	7.2	3.8	3.6	3.8	3.8	40.5	19.2	15.4
% WITH CAPABILITY	68.0	15.9	21.2	84.2	81.9	82.1	77.3	1.7	3.7	12.6
BUSINESS										
ESTIMATED POPULATION	6,183	737	868	19,065	14,015	16,284	13,209	234	98	11,932
% STANDARD ERROR	6.7	20.2	19.2	3.8	4.4	4.2	4.7	39.9	68.5	5.6
% WITH CAPABILITY	18.6	2.2	2.6	57.5	42.2	49.1	39.8	0.7	0.3	36.0
PERSONAL										
ESTIMATED POPULATION	3,814	338	389	25,704	13,011	20,592	12,672	53	129	90,489
% STANDARD ERROR	9.1	35.3	30.3	3.3	4.9	3.8	5.0	78.1	54.0	1.3
% WITH CAPABILITY	3.1	0.3	0.3	21.2	10.7	17.0	10.5	0.0	0.1	74.7
INSTRUCTIONAL										
ESTIMATED POPULATION	329	46	16	2,120	1,189	1,704	981	3	0	12,823
% STANDARD ERROR	30.6	98.7	*	13.1	17.0	14.5	18.4	*	0.0	5.2
% WITH CAPABILITY	2.2	0.3	0.1	13.9	7.8	11.2	6.4	0.0	0.0	84.2
AERIAL APPLICATION										
ESTIMATED POPULATION	26	0	12	54	42	46	40	0	2	5,448
% STANDARD ERROR	97.0	0.0	*	73.1	78.5	73.1	80.5	0.0	*	4.4
% WITH CAPABILITY	0.5	0.0	0.2	1.0	0.8	0.8	0.7	0.0	0.0	98.7
AERIAL OBSERVATION										
ESTIMATED POPULATION	251	0	87	943	667	862	600	0	2	3,887
% STANDARD ERROR	35.5	0.0	65.0	19.8	22.7	20.4	23.7	0.0	*	9.3
% WITH CAPABILITY	5.1	0.0	1.8	19.0	13.4	17.4	12.1	0.0	0.0	78.3
SIGHT SEEING										
ESTIMATED POPULATION	3	0	0	53	0	53	0	0	0	1,629
% STANDARD ERROR	83.2	0.0	0.0	88.4	0.0	88.4	0.0	0.0	0.0	13.6
% WITH CAPABILITY	0.1	0.0	0.0	3.1	0.0	3.1	0.0	0.0	0.0	96.7

7.17 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY PRIMARY USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

PRIMARY USE	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPT	-----AUTOPILOT-AXIS CONTROLS-----			AUTO LAND	FL DATA REC'D	NO GCE	
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
EXTERNAL LOAD										
ESTIMATED POPULATION	3	0	0	20	14	20	9	0	148	
% STANDARD ERROR	92.1	0.0	0.0	38.0	48.8	38.0	54.4	0.0	31.7	
% WITH CAPABILITY	1.9	0.0	0.0	12.1	8.4	12.1	5.1	0.0	87.9	
OTHER WORK USE										
ESTIMATED POPULATION	17	0	1	146	64	138	11	0	942	
% STANDARD ERROR	*	0.0	*	51.0	67.6	50.1	*	0.0	17.5	
% WITH CAPABILITY	1.5	0.0	0.0	12.4	5.4	11.8	0.9	0.0	80.2	
AIR TAXI										
ESTIMATED POPULATION	1,476	25	24	2,605	2,295	2,439	2,318	2	1,197	
% STANDARD ERROR	11.5	78.2	81.8	9.6	10.0	9.7	10.1	*	12.4	
% WITH CAPABILITY	37.4	0.6	0.6	66.0	58.2	61.8	58.8	0.0	30.3	
OTHER										
ESTIMATED POPULATION	717	195	136	1,349	1,083	1,169	1,120	67	3,081	
% STANDARD ERROR	18.2	30.6	38.1	14.9	16.5	16.0	16.2	78.4	11.3	
% WITH CAPABILITY	15.4	4.2	2.9	28.9	23.2	25.1	24.0	1.4	66.1	
INACTIVE										
ESTIMATED POPULATION	828	218	202	2,823	2,103	2,527	1,508	34	19,900	
% STANDARD ERROR	16.7	33.0	37.5	9.8	10.6	10.1	12.7	66.0	2.3	
% WITH CAPABILITY	3.5	0.9	0.9	12.1	9.0	10.8	6.5	0.1	85.3	
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	21,086	3,380	4,108	63,954	43,281	54,708	40,794	587	148,099	
% STANDARD ERROR	2.6	7.8	6.7	1.5	1.9	1.7	2.1	23.7	0.8	
% WITH CAPABILITY	8.6	1.4	1.7	26.2	17.7	22.4	16.7	0.2	60.7	

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.18 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

REGION	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPTN	-----AUTOPILOT-AXIS CONTROLS----- LONGITUDE	VERTICAL	LATERAL	APP MODE	AUTO LAND	FL DATA REC'D	NO GCE
ALASKAN										
ESTIMATED POPULATION	163	3	11	313	194	287	157	0	13	6,370
% STANDARD ERROR	37.1	*	97.5	29.0	38.9	31.1	40.4	0.0	73.4	6.5
% WITH CAPABILITY	2.4	0.0	0.2	4.6	2.9	4.2	2.3	0.0	0.2	94.0
CENTRAL										
ESTIMATED POPULATION	1,692	407	311	3,767	2,882	3,400	2,417	28	14	9,884
% STANDARD ERROR	12.8	25.9	26.1	9.5	10.5	9.9	11.3	*	76.3	6.0
% WITH CAPABILITY	12.0	2.9	2.2	26.7	20.4	24.1	17.1	0.2	0.1	70.1
EASTERN										
ESTIMATED POPULATION	2,471	344	371	8,473	5,281	6,999	5,351	1	107	17,003
% STANDARD ERROR	10.0	23.0	22.9	6.3	7.6	6.8	7.7	*	33.7	4.4
% WITH CAPABILITY	9.3	1.3	1.4	31.9	19.9	26.3	20.1	0.0	0.4	64.0
GREAT LAKES										
ESTIMATED POPULATION	3,438	588	885	11,484	7,606	9,840	7,457	65	200	27,310
% STANDARD ERROR	8.4	18.4	15.0	5.3	6.3	5.7	6.5	68.4	30.2	3.4
% WITH CAPABILITY	8.5	1.5	2.2	28.4	18.8	24.3	18.4	0.2	0.5	67.5
NEW ENGLAND										
ESTIMATED POPULATION	729	81	176	2,833	1,881	2,269	1,894	29	19	7,106
% STANDARD ERROR	20.1	55.2	37.8	11.4	13.8	12.8	13.9	*	*	7.1
% WITH CAPABILITY	7.0	0.8	1.7	27.2	18.1	21.8	18.2	0.3	0.2	68.2
NORTHWEST MOUNTAIN										
ESTIMATED POPULATION	1,731	345	328	5,357	3,297	4,184	3,001	48	85	17,952
% STANDARD ERROR	12.5	28.5	27.0	8.0	9.9	9.1	10.4	83.5	66.8	4.3
% WITH CAPABILITY	7.2	1.4	1.4	22.2	13.7	17.4	12.4	0.2	0.4	74.4

7.18 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY REGION OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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REGION	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPTR	-----AUTOPILOT-AXIS CONTROLS-----	AUTO LAND	FL DATA REC'D	NO GCE			
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
ALASKAN										
ESTIMATED POPULATION	163	3	11	313	194	287	157	0	6,370	
% STANDARD ERROR	37.1	*	97.5	29.0	38.9	31.1	40.4	0.0	73.4	
% WITH CAPABILITY	2.4	0.0	0.2	4.6	2.9	4.2	2.3	0.0	0.2	
CENTRAL										
ESTIMATED POPULATION	1,692	407	311	3,767	2,882	3,400	2,417	28	9,884	
% STANDARD ERROR	12.8	25.9	26.1	9.5	10.5	9.9	11.3	*	76.3	
% WITH CAPABILITY	12.0	2.9	2.2	26.7	20.4	24.1	17.1	0.2	0.1	
EASTERN										
ESTIMATED POPULATION	2,471	344	371	8,473	5,281	6,999	5,351	1	17,003	
% STANDARD ERROR	10.0	23.0	22.9	6.3	7.6	6.8	7.7	*	33.7	
% WITH CAPABILITY	9.3	1.3	1.4	31.9	19.9	26.3	20.1	0.0	0.4	
GREAT LAKES										
ESTIMATED POPULATION	3,438	588	885	11,484	7,606	9,840	7,457	65	27,310	
% STANDARD ERROR	8.4	18.4	15.0	5.3	6.3	5.7	6.5	68.4	30.2	
% WITH CAPABILITY	8.5	1.5	2.2	28.4	18.8	24.3	18.4	0.2	0.5	
NEW ENGLAND										
ESTIMATED POPULATION	729	81	176	2,833	1,881	2,269	1,894	29	7,106	
% STANDARD ERROR	20.1	55.2	37.8	11.4	13.8	12.8	13.9	*	*	
% WITH CAPABILITY	7.0	0.8	1.7	27.2	18.1	21.8	18.2	0.3	0.2	
NORTHWEST MOUNTAIN										
ESTIMATED POPULATION	1,731	345	328	5,357	3,297	4,184	3,001	48	85	
% STANDARD ERROR	12.5	28.5	27.0	8.0	9.9	9.1	10.4	83.5	66.8	
% WITH CAPABILITY	7.2	1.4	1.4	22.2	13.7	17.4	12.4	0.2	0.4	

7.19 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPTN	-----AUTOPILOT-AXIS CONTROLS----- LONGITUDE	VERTICAL	LATERAL	APP MODE	AUTO LAND	FL DATA RECORDER	NO GCE
ALABAMA										
ESTIMATED POPULATION	498	119	57	996	624	999	762	2	2	2,585
% STANDARD ERROR	24.7	56.2	68.2	18.7	22.6	18.5	20.9	*	*	11.9
% WITH CAPABILITY	13.3	3.2	1.5	26.5	16.6	26.6	20.3	0.0	0.1	68.9
ALASKA										
ESTIMATED POPULATION	163	3	11	313	194	287	157	0	13	6,370
% STANDARD ERROR	37.1	*	97.5	29.0	38.9	31.1	40.4	0.0	73.4	6.5
% WITH CAPABILITY	2.4	0.0	0.2	4.6	2.9	4.2	2.3	0.0	0.2	94.0
ARIZONA										
ESTIMATED POPULATION	310	76	51	1,392	904	1,065	813	5	7	3,874
% STANDARD ERROR	32.4	67.0	81.8	16.1	19.4	17.9	20.3	*	*	9.4
% WITH CAPABILITY	5.8	1.4	1.0	26.1	16.9	19.9	15.2	0.1	0.1	72.5
ARKANSAS										
ESTIMATED POPULATION	362	51	69	925	772	906	681	0	12	2,006
% STANDARD ERROR	29.2	58.9	52.3	19.4	20.9	19.9	21.7	0.0	*	13.1
% WITH CAPABILITY	11.9	1.7	2.3	30.3	25.3	29.7	22.3	0.0	0.4	65.7
CALIFORNIA										
ESTIMATED POPULATION	2,712	518	578	8,433	5,758	7,392	5,447	150	114	16,916
% STANDARD ERROR	10.3	22.9	21.8	6.3	7.4	6.7	7.7	47.1	60.4	4.3
% WITH CAPABILITY	10.0	1.9	2.1	31.0	21.2	27.2	20.0	0.6	0.4	62.2
COLORADO										
ESTIMATED POPULATION	332	58	104	1,403	744	1,110	809	13	16	3,075
% STANDARD ERROR	28.0	68.4	56.0	16.4	20.9	17.9	20.8	*	*	11.0
% WITH CAPABILITY	7.1	1.3	2.2	30.2	16.0	23.9	17.4	0.3	0.3	66.2
CONNECTICUT										
ESTIMATED POPULATION	152	61	73	485	448	459	424	1	5	1,317
% STANDARD ERROR	43.8	69.0	61.2	27.5	28.8	28.2	29.7	*	*	16.6
% WITH CAPABILITY	7.9	3.2	3.8	25.2	23.3	23.9	22.0	0.1	0.3	68.4

7.19 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	FLIGHT DIRECT	EFIS	FL MGT COMPT	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA RECORDER	NO GCE
				-----	-----	-----	-----			
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
DELAWARE										
ESTIMATED POPULATION	377	54	68	740	557	679	506	0	2	780
% STANDARD ERROR	28.1	81.1	65.1	21.3	23.5	22.3	25.0	0.0	*	20.2
% WITH CAPABILITY	24.0	3.4	4.3	47.2	35.5	43.3	32.3	0.0	0.1	49.8
DISTRICT OF COLUMBIA										
ESTIMATED POPULATION	8	7	7	13	13	13	13	0	5	16
% STANDARD ERROR	*	*	*	*	*	*	*	0.0	*	*
% WITH CAPABILITY	27.3	25.2	25.2	43.8	43.8	43.8	43.8	0.0	16.5	56.2
FLORIDA										
ESTIMATED POPULATION	1,455	232	349	4,809	3,294	3,958	2,785	25	115	6,693
% STANDARD ERROR	13.5	32.9	27.4	8.4	9.8	9.2	10.6	*	40.7	7.2
% WITH CAPABILITY	12.3	2.0	3.0	40.7	27.9	33.5	23.6	0.2	1.0	56.6
GEORGIA										
ESTIMATED POPULATION	553	16	97	1,720	1,085	1,371	920	0	1	2,615
% STANDARD ERROR	21.0	77.5	41.1	14.1	16.7	15.6	17.9	0.0	*	11.9
% WITH CAPABILITY	12.4	0.4	2.2	38.6	24.4	30.8	20.7	0.0	0.0	58.7
HAWAII										
ESTIMATED POPULATION	18	3	6	118	100	101	40	0	0	425
% STANDARD ERROR	*	*	*	49.1	52.1	49.5	85.6	0.0	0.0	24.7
% WITH CAPABILITY	3.4	0.5	1.0	21.5	18.2	18.5	7.3	0.0	0.0	77.7
IDAH0										
ESTIMATED POPULATION	147	10	45	374	296	295	201	2	4	1,938
% STANDARD ERROR	43.1	*	83.7	30.3	33.4	33.3	38.5	*	*	13.2
% WITH CAPABILITY	6.4	0.4	1.9	16.1	12.8	12.7	8.7	0.1	0.2	83.7
ILLINOIS										
ESTIMATED POPULATION	819	106	262	2,727	1,985	2,285	1,751	0	18	4,220
% STANDARD ERROR	18.0	39.5	30.3	11.4	13.0	12.3	14.0	0.0	76.6	9.4
% WITH CAPABILITY	11.2	1.5	3.6	37.4	27.2	31.3	24.0	0.0	0.2	57.8

7.19 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY STATE OF BASED AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

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STATE	GUIDANCE AND CONTROL EQUIPMENT										FL DATA REC'D	NO GCE
	FLIGHT DIRECT	EFIS	FL MGT COMPTR	-----AUTOPILOT-AXIS CONTROLS----- LONGITUDE	VERTICAL	LATERAL	APP	MODE	AUTO LAND			
INDIANA												
ESTIMATED POPULATION	627	131	156	1,448	1,068	1,281	761		0	24	2,840	
% STANDARD ERROR	20.3	36.5	32.4	15.6	17.5	16.2	19.4		0.0	62.7	11.2	
% WITH CAPABILITY	13.7	2.9	3.4	31.7	23.4	28.0	16.7		0.0	0.5	62.2	
IOWA												
ESTIMATED POPULATION	306	49	58	838	616	656	556		0	2	2,139	
% STANDARD ERROR	31.4	75.1	74.8	20.7	23.0	23.1	24.8		0.0	*	13.1	
% WITH CAPABILITY	9.8	1.6	1.9	26.9	19.7	21.0	17.8		0.0	0.0	68.6	
KANSAS												
ESTIMATED POPULATION	662	146	88	1,120	975	1,057	769		2	0	2,624	
% STANDARD ERROR	21.5	44.3	49.5	17.3	18.2	17.6	20.0		*	0.0	12.0	
% WITH CAPABILITY	17.6	3.9	2.3	29.7	25.9	28.1	20.4		0.0	0.0	69.6	
KENTUCKY												
ESTIMATED POPULATION	227	8	8	604	462	543	416		24	31	1,716	
% STANDARD ERROR	33.9	*	*	24.2	26.6	25.2	27.6		*	*	15.3	
% WITH CAPABILITY	9.7	0.3	0.4	25.8	19.7	23.2	17.8		1.0	1.3	73.3	
LOUISIANA												
ESTIMATED POPULATION	263	33	37	801	471	763	570		17	38	2,017	
% STANDARD ERROR	31.9	96.4	*	21.3	25.5	21.8	24.5		*	*	12.9	
% WITH CAPABILITY	9.0	1.1	1.3	27.4	16.1	26.1	19.5		0.6	1.3	69.1	
MAINE												
ESTIMATED POPULATION	42	3	7	198	109	261	150		2	3	1,034	
% STANDARD ERROR	88.4	*	*	40.8	52.9	38.6	46.9		*	*	19.4	
% WITH CAPABILITY	3.2	0.2	0.5	15.0	8.2	19.7	11.4		0.1	0.2	78.3	
MARYLAND												
ESTIMATED POPULATION	177	9	27	855	420	722	490		0	3	1,985	
% STANDARD ERROR	35.5	95.5	78.9	20.1	26.6	21.9	25.1		0.0	*	13.3	
% WITH CAPABILITY	5.9	0.3	0.9	28.7	14.1	24.2	16.5		0.0	0.1	66.7	

7.19 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
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EXCLUDES COMMUTER AIRCRAFT

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STATE	FLIGHT DIRECT	EFIS	FL MGT COMPT	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA RECORDER	NO GCE
				-----	-----	-----	-----			
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
MASSACHUSETTS										
ESTIMATED POPULATION	337	9	38	1,469	980	1,077	876	23	10	1,602
% STANDARD ERROR	30.9	*	73.5	16.3	19.9	18.8	21.1	*	*	15.7
% WITH CAPABILITY	10.4	0.3	1.2	45.4	30.3	33.3	27.1	0.7	0.3	49.5
MICHIGAN										
ESTIMATED POPULATION	539	126	158	2,057	1,179	1,970	1,537	62	102	4,743
% STANDARD ERROR	21.7	43.1	35.9	13.0	16.2	13.4	15.2	70.0	49.9	8.9
% WITH CAPABILITY	7.6	1.8	2.2	29.0	16.6	27.8	21.7	0.9	1.4	66.9
MINNESOTA										
ESTIMATED POPULATION	392	57	70	1,389	943	1,103	806	0	16	4,561
% STANDARD ERROR	27.0	55.2	55.0	15.8	18.5	17.3	20.0	0.0	*	8.7
% WITH CAPABILITY	6.3	0.9	1.1	22.4	15.2	17.8	13.0	0.0	0.3	73.6
MISSISSIPPI										
ESTIMATED POPULATION	231	11	38	551	360	519	315	3	5	1,356
% STANDARD ERROR	36.3	91.2	89.7	24.8	27.9	25.9	31.4	*	*	15.8
% WITH CAPABILITY	11.5	0.5	1.9	27.4	17.9	25.9	15.7	0.2	0.3	67.6
MISSOURI										
ESTIMATED POPULATION	536	183	128	1,234	903	1,177	714	0	12	3,230
% STANDARD ERROR	22.2	39.5	37.6	16.8	18.9	17.0	20.6	0.0	80.2	11.0
% WITH CAPABILITY	11.4	3.9	2.7	26.2	19.2	25.0	15.2	0.0	0.3	68.7
MONTANA										
ESTIMATED POPULATION	99	34	12	450	230	359	211	0	4	1,647
% STANDARD ERROR	52.9	*	*	29.4	39.5	32.9	40.7	0.0	*	14.9
% WITH CAPABILITY	4.4	1.5	0.5	19.9	10.2	15.9	9.4	0.0	0.2	72.9
NEBRASKA										
ESTIMATED POPULATION	188	29	36	575	388	510	377	26	0	1,892
% STANDARD ERROR	37.9	78.6	70.1	25.2	29.2	26.3	29.5	*	0.0	13.2
% WITH CAPABILITY	7.5	1.2	1.4	22.9	15.4	20.3	15.0	1.0	0.0	75.2

7.19 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
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STATE	FLIGHT DIRECT	EFIS	FL MGT COMPTR	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA REC'D	NO GCE
				-----AUTOPILOT-AXIS CONTROLS-----	LONGITUDE	VERTICAL	LATERAL			
NEVADA	306	30	95	887	588	670	418	0	13	1,328
	32.1	63.9	59.2	20.4	24.2	23.3	28.5	0.0	66.4	14.9
	13.3	1.3	4.1	38.5	25.5	29.1	18.1	0.0	0.6	57.7
NEW HAMPSHIRE	109	3	6	339	141	269	225	3	0	1,623
	45.2	*	*	31.5	38.7	34.6	37.7	*	0.0	14.8
	5.4	0.1	0.3	16.8	7.0	13.4	11.1	0.2	0.0	80.4
NEW JERSEY	466	51	52	1,451	1,068	1,389	1,123	0	15	2,006
	24.7	45.7	66.0	15.6	17.9	15.8	17.3	0.0	80.1	13.8
	12.3	1.4	1.4	38.4	28.3	36.8	29.7	0.0	0.4	53.1
NEW MEXICO	214	23	14	780	490	754	415	27	3	1,674
	34.7	*	*	21.8	26.1	21.8	28.1	*	*	13.8
	8.2	0.9	0.5	30.0	18.8	29.0	16.0	1.0	0.1	64.4
NEW YORK	339	108	74	1,844	919	1,363	1,143	1	56	4,673
	22.7	35.7	36.2	13.9	17.8	15.8	17.2	*	39.3	9.0
	5.1	1.6	1.1	27.8	13.9	20.6	17.3	0.0	0.8	70.5
NORTH CAROLINA	628	75	57	1,504	1,169	1,347	971	31	0	2,729
	24.4	69.1	68.4	15.8	17.7	16.9	19.6	*	0.0	11.9
	14.3	1.7	1.3	34.2	26.6	30.6	22.1	0.7	0.0	62.0
NORTH DAKOTA	123	9	12	286	229	295	197	2	0	1,821
	51.7	*	*	34.6	39.2	34.7	41.5	*	0.0	14.1
	5.7	0.4	0.6	13.4	10.7	13.8	9.2	0.1	0.0	85.0

7.19 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
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STATE	FLIGHT DIRECT	EFIS	FL MGT COMPTR	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA RECORDER	NO GCE
				-----AUTOPILOT-AXIS CONTROLS-----	LONGITUDE	VERTICAL	LATERAL			
OHIO										
ESTIMATED POPULATION	647	143	137	2,201	1,408	1,834	1,549	0	35	4,075
% STANDARD ERROR	20.0	44.8	40.5	12.4	15.0	13.6	14.5	0.0	48.6	9.6
% WITH CAPABILITY	9.8	2.1	2.1	33.2	21.2	27.7	23.4	0.0	0.5	61.5
OKLAHOMA										
ESTIMATED POPULATION	484	107	177	1,170	850	1,067	869	0	15	2,721
% STANDARD ERROR	25.1	54.5	42.6	17.5	19.9	18.2	19.9	0.0	61.5	11.8
% WITH CAPABILITY	12.0	2.7	4.4	29.1	21.1	26.5	21.6	0.0	0.4	67.7
OREGON										
ESTIMATED POPULATION	675	109	86	1,581	1,076	1,172	886	29	10	3,287
% STANDARD ERROR	21.0	48.3	40.1	15.0	17.7	17.4	19.2	*	*	10.3
% WITH CAPABILITY	13.6	2.2	1.7	31.8	21.7	23.6	17.8	0.6	0.2	66.2
PENNSYLVANIA										
ESTIMATED POPULATION	519	27	43	2,062	1,260	1,401	1,002	0	4	3,871
% STANDARD ERROR	21.7	66.3	60.9	13.4	16.5	15.9	18.0	0.0	*	9.6
% WITH CAPABILITY	8.4	0.4	0.7	33.5	20.5	22.8	16.3	0.0	0.1	62.9
RHODE ISLAND										
ESTIMATED POPULATION	64	3	51	213	104	107	141	0	1	647
% STANDARD ERROR	67.0	*	75.8	42.4	55.8	60.1	50.3	0.0	*	26.1
% WITH CAPABILITY	7.3	0.4	5.8	24.3	11.8	12.2	16.0	0.0	0.1	73.7
SOUTH CAROLINA										
ESTIMATED POPULATION	237	3	9	542	318	496	292	0	2	1,661
% STANDARD ERROR	36.0	*	*	26.1	32.2	27.3	32.9	0.0	*	14.7
% WITH CAPABILITY	10.2	0.1	0.4	23.3	13.7	21.3	12.6	0.0	0.1	71.4
SOUTH DAKOTA										
ESTIMATED POPULATION	67	0	18	363	180	266	198	0	0	1,442
% STANDARD ERROR	71.2	0.0	*	32.7	46.3	38.2	44.0	0.0	0.0	14.9
% WITH CAPABILITY	3.6	0.0	1.0	19.7	9.8	14.4	10.7	0.0	0.0	78.2

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STATE	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPTR	-----AUTOPILOT-AXIS CONTROLS-----				AUTO LAND	FL DATA REC'D	NO GCE
TENNESSEE										
ESTIMATED POPULATION	611	81	70	1,178	764	970	783	41	7	2,259
% STANDARD ERROR	22.6	65.0	69.6	17.0	19.8	18.7	20.3	*	*	13.4
% WITH CAPABILITY	17.1	2.3	2.0	33.0	21.4	27.2	21.9	1.1	0.2	63.2
TEXAS										
ESTIMATED POPULATION	1,717	226	311	4,940	3,810	4,426	3,690	91	76	8,945
% STANDARD ERROR	12.7	31.7	25.5	8.3	9.3	8.7	9.4	61.8	48.4	6.2
% WITH CAPABILITY	11.8	1.6	2.1	33.9	26.2	30.4	25.3	0.6	0.5	61.4
UTAH										
ESTIMATED POPULATION	142	45	12	464	248	232	247	4	46	1,558
% STANDARD ERROR	41.5	71.1	*	27.6	34.7	35.5	35.2	*	*	15.7
% WITH CAPABILITY	6.8	2.1	0.6	22.1	11.8	11.0	11.8	0.2	2.2	74.3
VERMONT										
ESTIMATED POPULATION	24	2	2	128	99	95	78	0	0	882
% STANDARD ERROR	*	*	*	54.7	64.6	65.5	73.0	0.0	0.0	19.4
% WITH CAPABILITY	2.3	0.2	0.2	12.4	9.6	9.2	7.6	0.0	0.0	85.2
VIRGINIA										
ESTIMATED POPULATION	425	87	99	1,139	819	1,062	734	0	23	2,582
% STANDARD ERROR	24.4	50.1	47.7	17.2	19.5	17.8	20.7	0.0	93.2	11.6
% WITH CAPABILITY	10.9	2.2	2.5	29.3	21.1	27.3	18.9	0.0	0.6	66.4
WASHINGTON										
ESTIMATED POPULATION	217	83	57	923	558	860	508	0	0	5,369
% STANDARD ERROR	34.6	59.9	58.2	20.0	24.9	21.0	25.9	0.0	0.0	8.1
% WITH CAPABILITY	3.3	1.3	0.9	14.0	8.5	13.1	7.7	0.0	0.0	81.6
WEST VIRGINIA										
ESTIMATED POPULATION	161	1	2	369	225	370	339	0	1	1,090
% STANDARD ERROR	48.3	56.4	*	33.0	40.5	33.3	35.5	0.0	56.4	18.9
% WITH CAPABILITY	10.3	0.0	0.1	23.6	14.4	23.6	21.6	0.0	0.0	69.6

7.19 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
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STATE	FLIGHT DIRECT	EFIS	FL MGT COMPTR	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA REC'D	NO GCE
				-----AUTOPILOT-AXIS CONTROLS-----	LONGITUDE	VERTICAL	LATERAL			
WISCONSIN	225	15	72	1,012	614	805	657	2	4	3,608
ESTIMATED POPULATION	33.3	99.2	56.9	19.3	23.2	21.2	22.8	*	*	10.1
% STANDARD ERROR	4.8	0.3	1.5	21.5	13.1	17.1	14.0	0.0	0.1	76.8
% WITH CAPABILITY										
WYOMING	119	5	12	163	144	156	139	0	5	1,079
ESTIMATED POPULATION	51.4	*	*	43.0	46.3	43.1	47.6	0.0	*	18.4
% STANDARD ERROR	9.5	0.4	1.0	13.0	11.5	12.5	11.1	0.0	0.4	86.1
% WITH CAPABILITY										
PUERTO RICO	22	0	2	333	279	336	290	0	0	652
ESTIMATED POPULATION	*	0.0	*	34.2	38.3	34.2	37.1	0.0	0.0	25.4
% STANDARD ERROR	2.2	0.0	0.2	33.3	27.9	33.6	29.1	0.0	0.0	65.3
% WITH CAPABILITY										
OTHER U.S. TERRITORIES	2	0	0	14	15	18	13	0	0	163
ESTIMATED POPULATION	*	0.0	0.0	*	*	*	*	0.0	0.0	34.8
% STANDARD ERROR	1.3	0.0	0.0	7.5	8.1	9.8	7.4	0.0	0.0	90.2
% WITH CAPABILITY										
TOTAL ALL AIRCRAFT	21,086	3,380	4,108	63,954	43,281	54,708	40,794	587	880	148,099
ESTIMATED POPULATION	2.6	7.8	6.7	1.5	1.9	1.7	2.1	23.7	15.8	0.8
% STANDARD ERROR	8.6	1.4	1.7	26.2	17.7	22.4	16.7	0.2	0.4	60.7
% WITH CAPABILITY										

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.20 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
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AGE OF AIRCRAFT	GUIDANCE AND CONTROL EQUIPMENT										
	FLIGHT DIRECT	EFIS	FL MGT COMPTR	-----AUTOPILOT-AXIS CONTROLS----- LONGITUDE	VERTICAL	LATERAL	APP	MODE	AUTO LAND	FL DATA REC'D	NO GCE
1 1 TO 5 YEARS OLD											
ESTIMATED POPULATION	2,050	1,016	1,003	2,978	2,704	2,572	2,568		2	105	7,192
% STANDARD ERROR	10.1	13.8	13.6	9.1	9.4	9.8	9.4		*	32.7	6.0
% WITH CAPABILITY	4.7	2.3	2.3	6.8	6.2	5.9	5.9		0.0	0.2	16.4
6 6 TO 10 YEARS OLD											
ESTIMATED POPULATION	2,997	903	1,004	4,058	3,765	3,600	3,645		34	170	4,342
% STANDARD ERROR	8.2	14.0	13.2	7.5	7.7	8.0	7.9		95.2	33.1	8.5
% WITH CAPABILITY	8.2	2.5	2.8	11.1	10.3	9.9	10.0		0.1	0.5	11.9
11 11 TO 15 YEARS OLD											
ESTIMATED POPULATION	6,585	426	788	14,129	10,413	12,441	10,837		337	243	10,575
% STANDARD ERROR	5.9	23.7	16.3	4.5	5.1	4.9	5.1		32.2	35.7	5.7
% WITH CAPABILITY	17.4	1.1	2.1	37.3	27.5	32.8	28.6		0.9	0.6	27.9
16 16 TO 20 YEARS OLD											
ESTIMATED POPULATION	5,706	503	837	18,066	11,784	14,948	11,583		109	68	20,299
% STANDARD ERROR	6.7	26.1	19.4	4.0	4.9	4.5	5.1		56.0	60.3	4.0
% WITH CAPABILITY	19.3	1.7	2.8	61.0	39.8	50.5	39.1		0.4	0.2	68.5
21 21 TO 25 YEARS OLD											
ESTIMATED POPULATION	1,506	156	48	8,352	4,935	7,149	4,738		2	25	13,889
% STANDARD ERROR	13.6	49.7	76.3	6.4	8.0	6.9	8.4		*	85.2	5.1
% WITH CAPABILITY	6.1	0.6	0.2	33.9	20.0	29.0	19.2		0.0	0.1	56.4
26 26 TO 30 YEARS OLD											
ESTIMATED POPULATION	984	166	174	8,398	4,736	6,760	3,524		26	127	19,558
% STANDARD ERROR	16.1	50.7	41.5	6.2	7.9	6.8	9.2		*	42.5	4.2
% WITH CAPABILITY	18.0	3.0	3.2	100.0	86.8	100.0	64.6		0.5	2.3	100.0

7.20 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
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AGE OF AIRCRAFT	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPT	-----AUTOPILOT-AXIS CONTROLS----- LONGITUDE	VERTICAL	LATERAL	APP MODE	AUTO LAND	FL DATA REC'D	NO GCE
31 TO 35 YEARS OLD	392	41	94	3,568	1,922	3,241	1,745	27	11	11,621
	28.9	55.1	62.3	9.4	13.2	10.1	14.1	*	59.8	5.4
	10.6	1.1	2.6	96.9	52.2	88.1	47.4	0.7	0.3	100.0
36 TO 40 YEARS OLD	81	35	2	1,214	744	1,126	603	0	5	8,044
	39.0	*	*	17.5	22.3	18.0	25.2	0.0	20.1	6.5
	1.9	0.8	0.0	28.5	17.4	26.4	14.1	0.0	0.1	100.0
41 TO 45 YEARS OLD	17	1	1	255	117	193	81	1	0	4,703
	51.6	*	*	36.8	49.3	41.2	53.5	*	0.0	7.0
	1.1	0.1	0.1	16.7	7.7	12.7	5.3	0.1	0.0	100.0
46 TO 50 YEARS OLD	22	0	5	110	53	109	44	0	3	11,911
	59.0	0.0	*	46.2	57.1	39.3	61.4	0.0	*	4.0
	0.5	0.0	0.1	2.3	1.1	2.2	0.9	0.0	0.1	100.0
51 TO 55 YEARS OLD	4	1	3	4	10	11	1	0	0	3,350
	*	*	*	*	52.4	69.1	*	0.0	0.0	6.9
	0.3	0.1	0.3	0.3	0.8	0.9	0.1	0.0	0.0	100.0
56 TO 60 YEARS OLD	2	0	0	0	0	0	0	0	0	312
	97.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4
	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4

7.20 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
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AGE OF AIRCRAFT	GUIDANCE AND CONTROL EQUIPMENT									
	FLIGHT DIRECT	EFIS	FL MGT COMPT	-----AUTOPILOT-AXIS CONTROLS-----			AUTO LAND	FL DATA REC'D	NO GCE	
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
OVER 60 YEARS OLD										
ESTIMATED POPULATION	78	0	0	225	177	182	159	0	598	
% STANDARD ERROR	60.0	0.0	0.0	38.4	43.0	41.3	47.9	0.0	23.6	
% WITH CAPABILITY	18.5	0.0	0.0	53.4	41.9	43.2	37.8	0.0	100.0	
YEAR MANUFACTURE UNK										
ESTIMATED POPULATION	661	131	149	2,596	1,922	2,378	1,266	49	31,705	
% STANDARD ERROR	20.6	42.4	41.6	11.2	12.4	11.7	15.8	83.0	2.8	
% WITH CAPABILITY	1.4	0.3	0.3	5.3	4.0	4.9	2.6	0.1	65.2	
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	21,086	3,380	4,108	63,954	43,281	54,708	40,794	587	148,099	
% STANDARD ERROR	2.6	7.8	6.7	1.5	1.9	1.7	2.1	23.7	0.8	
% WITH CAPABILITY	8.6	1.4	1.7	26.2	17.7	22.4	16.7	0.2	60.7	

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

7.21 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IFR FLIGHT PLANS
BY TRANSPONDER EQUIPPED AIRCRAFT BY AIRCRAFT TYPE

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AIRCRAFT TYPE	ESTIMATED NUMBER AIRCRAFT FLOWN IFR	PERCENT STANDARD ERROR	ESTIMATED PERCENT ACTIVE FLOWN IFR	TOTAL HOURS FLOWN IFR	PERCENT STANDARD ERROR	PERCENT OF TOTAL HOURS	EST. NUMBER FLOWN WITH TRANSPONDER ⁿ	PERCENT STANDARD ERROR	PERCENT AIRCRAFT FLOWN TRANSPONDER
FIXED WING									
FIXED WING - PISTON									
1 ENG: 1-3 SEATS	3,487	11.5	8.5	91,714	11.5	1.9	427	10.7	12.3
1 ENG: 4+ SEATS	47,155	2.2	52.7	2,414,857	2.2	20.5	24,631	2.0	52.2
1 ENGINE: TOTAL	50,642	2.2	38.8	2,506,572	2.1	15.2	25,058	2.0	49.5
2 ENG: 1-6 SEATS	11,705	2.7	100.0	971,772	2.7	60.0	9,345	2.5	79.8
2 ENG: 7+ SEATS	5,336	3.0	97.6	581,612	3.0	65.1	4,424	3.0	82.9
2 ENGINE: TOTAL	17,041	2.1	100.0	1,553,384	2.0	61.8	13,770	1.9	80.8
PISTON: OTHER	42	36.9	100.0	1,133	36.9	100.0	19	21.0	45.1
PISTON: TOTAL	67,727	1.7	46.0	4,061,089	1.5	21.3	38,848	1.4	57.4
FIXED WING - TURBOPROP									
1 ENGINE: TOTAL	238	29.3	34.0	90,492	29.3	37.1	120	31.1	50.3
2 ENG: 1-12 SEATS	4,016	0.9	100.0	902,156	0.9	100.0	3,944	1.0	98.2
2 ENG: 13+ SEATS	744	2.7	100.0	188,121	2.7	100.0	688	1.5	92.5
2 ENGINE: TOTAL	4,760	0.9	100.0	1,090,277	0.5	100.0	4,633	0.9	97.3
TURBOPROP: OTHER	53	21.7	100.0	911	21.7	27.8	53	0.0	100.0
TURBOPROP: TOTAL	5,052	1.6	100.0	1,181,681	2.4	96.3	4,806	1.2	95.1
FIXED WING - TURBOJET									
2 ENGINE: TOTAL	4,103	1.3	100.0	1,209,435	1.3	100.0	3,860	1.8	94.1

7.21 1993 GENERAL AVIATION ACTIVE AIRCRAFT AND TOTAL HOURS FLOWN UNDER IFR FLIGHT PLANS
BY TRANSPONDER EQUIPPED AIRCRAFT BY AIRCRAFT TYPE

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AIRCRAFT TYPE	ESTIMATED NUMBER AIRCRAFT FLOWN IFR	PERCENT STANDARD ERROR	ESTIMATED PERCENT ACTIVE FLOWN IFR	TOTAL HOURS FLOWN IFR	PERCENT STANDARD ERROR	PERCENT OF TOTAL HOURS	EST. NUMBER FLOWN IFR WITH TRANSPONDER ⁿ	PERCENT STANDARD ERROR	PERCENT AIRCRAFT FLOWN TRANSPONDER
TURBOJET: OTHER	329	4.7	100.0	78,816	4.7	100.0	273	3.0	83.0
TURBOJET: TOTAL	4,433	1.3	100.0	1,288,251	0.3	100.0	4,134	1.7	93.3
FIXED WING: TOTAL	77,213	1.5	49.7	6,439,619	1.1	30.1	47,789	1.2	61.9
ROTORCRAFT									
PISTON: TOTAL	25	76.1	1.6	2,773	76.1	0.7	0	0.0	1.8
1 ENG: TURBINE	140	43.8	6.5	10,922	43.8	1.0	10	15.6	7.2
MULTI-ENG: TURBINE	287	10.9	40.0	13,448	10.9	3.5	184	8.7	64.3
TURBINE: TOTAL	427	16.1	14.9	24,370	20.5	1.7	194	8.3	45.6
ROTORCRAFT: TOTAL	453	15.8	10.1	27,143	0.0	1.5	195	8.3	43.1
OTHER AIRCRAFT									
GLIDERS:	131	44.7	8.0	4,133	44.7	2.6	8	0.0	6.4
LIGHTER-THAN-AIR:	142	59.8	4.0	6,825	59.8	3.2	4	0.0	3.1
EXPERIMENTAL:									
HOME BUILT:	225	62.9	3.3	5,292	62.9	1.8	4	0.0	2.1
EXHIBITION:	61	74.7	3.8	2,385	74.7	2.7	1	0.0	2.6
OTHER:	876	16.9	35.6	88,410	16.9	27.2	243	12.2	27.7
TOTAL ALL AIRCRAFT	79,104	1.5	44.9	6,573,809	1.1	27.0	48,247	1.2	61.0

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
ⁿ INCLUDES MODE A, MODE C, AND MODE S

CHAPTER VIII

AVIONICS FOR COMMUTER AIRCRAFT ONLY

8.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
FOR COMPUTER AIRCRAFT ONLY

PAGE 1 OF 5

	AIRCRAFT TYPE	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
			AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
FIXED WING											
FIXED WING - PISTON											
1 ENG: 1-3 SEATS											
	ESTIMATED POPULATION	128	0	43	0	0	126	41	0	507	
	% STANDARD ERROR	**	0.0	**	0.0	0.0	**	**	0.0	**	
	% WITH CAPABILITY	23.2	0.0	7.7	0.0	0.0	22.8	7.3	0.0	91.8	
1 ENG: 4+ SEATS											
	ESTIMATED POPULATION	433	0	235	0	395	361	117	0	8	
	% STANDARD ERROR	1.3	0.0	18.5	0.0	7.4	8.4	36.5	0.0	50.5	
	% WITH CAPABILITY	97.4	0.0	52.9	0.0	88.9	81.2	26.3	0.0	1.7	
1 ENGINE: TOTAL											
	ESTIMATED POPULATION	561	0	278	0	395	487	157	0	515	
	% STANDARD ERROR	1.0	0.0	15.7	0.0	7.4	6.3	27.1	0.0	0.8	
	% WITH CAPABILITY	56.3	0.0	27.9	0.0	39.6	48.8	15.8	0.0	51.6	
2 ENG: 1-6 SEATS											
	ESTIMATED POPULATION	63	0	5	1	61	54	45	1	0	
	% STANDARD ERROR	**	0.0	**	72.8	**	**	**	72.8	0.0	
	% WITH CAPABILITY	100.0	0.0	8.4	1.8	96.7	86.3	71.3	1.8	0.0	
2 ENG: 7+ SEATS											
	ESTIMATED POPULATION	486	0	100	1	389	463	11	0	30	
	% STANDARD ERROR	3.3	0.0	28.2	*	7.8	4.6	*	0.0	71.3	
	% WITH CAPABILITY	96.2	0.0	19.8	0.2	77.1	91.7	2.2	0.0	6.0	
2 ENGINE: TOTAL											
	ESTIMATED POPULATION	549	0	105	2	450	517	56	1	30	
	% STANDARD ERROR	3.0	0.0	26.7	67.8	6.8	4.1	25.2	72.8	71.3	
	% WITH CAPABILITY	96.7	0.0	18.6	0.4	79.3	91.1	9.9	0.2	5.3	

8.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

PAGE 2 OF 5

	AIRCRAFT TYPE	AIRCRAFT SYSTEMS										VHF COMMUNICATIONS									
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF	AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF		
PISTON: OTHER		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
% ESTIMATED POPULATION		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
% STANDARD ERROR		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
% WITH CAPABILITY																					
PISTON: TOTAL		1,110	0	383	2	845	1,004	213	1	545											
% ESTIMATED POPULATION		1.5	0.0	13.6	67.8	5.0	3.7	21.1	72.8	4.0											
% STANDARD ERROR		70.9	0.0	24.5	0.1	54.0	64.2	13.6	0.1	34.8											
% WITH CAPABILITY																					
FIXED WING - TURBOPROP																					
1 ENGINE: TOTAL		98	0	0	1	98	98	0	0	0											
% ESTIMATED POPULATION		**	0.0	0.0	**	**	**	0.0	0.0	0.0											
% STANDARD ERROR		98.9	0.0	0.0	1.1	98.9	98.9	0.0	0.0	0.0											
% WITH CAPABILITY																					
2 ENG: 1-12 SEATS		335	156	170	0	351	521	166	228	0											
% ESTIMATED POPULATION		11.4	**	17.7	0.0	3.2	**	5.4	0.7	0.0											
% STANDARD ERROR		64.3	30.0	32.7	0.0	67.4	100.0	31.9	43.8	0.0											
% WITH CAPABILITY																					
2 ENG: 13+ SEATS		214	0	45	0	165	215	2	203	0											
% ESTIMATED POPULATION		0.4	0.0	81.6	0.0	22.1	**	83.5	10.4	0.0											
% STANDARD ERROR		99.3	0.0	20.7	0.0	76.6	99.6	1.1	93.8	0.1											
% WITH CAPABILITY																					
2 ENGINE: TOTAL		549	156	215	0	516	736	168	431	0											
% ESTIMATED POPULATION		7.0	**	22.0	0.0	7.4	**	5.5	4.9	0.0											
% STANDARD ERROR		74.6	21.2	29.2	0.0	70.1	99.9	22.9	58.4	0.0											
% WITH CAPABILITY																					

8.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

PAGE 3 OF 5

AIRCRAFT TYPE	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
TURBOPROP: OTHER	ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0
	% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOPROP: TOTAL	ESTIMATED POPULATION	648	156	215	1	615	834	168	431	0
	% STANDARD ERROR	5.9	**	22.0	**	6.2	**	5.5	4.9	0.0
	% WITH CAPABILITY	77.5	18.7	25.7	0.1	73.5	99.8	20.1	51.5	0.0
FIXED WING - TURBOJET										
2 ENGINE TURBOJET	ESTIMATED POPULATION	17	0	0	0	17	17	4	17	0
	% STANDARD ERROR	**	0.0	0.0	0.0	**	**	53.7	**	0.0
	% WITH CAPABILITY	100.0	0.0	0.0	0.0	100.0	100.0	25.0	100.0	0.0
TURBOJET: OTHER	ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0
	% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOJET: TOTAL	ESTIMATED POPULATION	17	0	0	0	17	17	4	17	0
	% STANDARD ERROR	**	0.0	0.0	0.0	**	**	53.7	**	0.0
	% WITH CAPABILITY	100.0	0.0	0.0	0.0	100.0	100.0	25.0	100.0	0.0
FIXED WING: TOTAL	ESTIMATED POPULATION	1,775	156	598	3	1,477	1,856	386	449	545
	% STANDARD ERROR	2.4	**	11.8	45.2	3.9	2.0	11.9	4.7	4.0
	% WITH CAPABILITY	73.4	6.5	24.7	0.1	61.1	76.7	16.0	18.6	22.5

8.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
FOR COMPUTER AIRCRAFT ONLY

PAGE 4 OF 5

AIRCRAFT TYPE	AIRCRAFT SYSTEMS		VHF COMMUNICATIONS						
	AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
ROTORCRAFT	PISTON								
	ESTIMATED POPULATION	40	0	27	0	14	0	0	0
	% STANDARD ERROR	**	0.0	**	0.0	**	0.0	0.0	0.0
1 ENG: TURBINE	% WITH CAPABILITY	100.0	0.0	66.3	0.0	33.7	0.0	0.0	0.0
	ESTIMATED POPULATION	173	0	2	0	192	0	0	0
	% STANDARD ERROR	11.7	0.0	**	0.0	**	0.0	0.0	0.0
MULTI-ENG: TURBINE	% WITH CAPABILITY	90.4	0.0	1.1	0.0	100.0	0.0	0.0	0.0
	ESTIMATED POPULATION	226	0	46	0	225	3	91	0
	% STANDARD ERROR	**	0.0	**	0.0	**	*	18.1	0.0
TURBINE TOTAL:	% WITH CAPABILITY	100.0	0.0	20.3	0.0	99.5	1.1	40.4	0.0
	ESTIMATED POPULATION	399	0	48	0	416	3	91	0
	% STANDARD ERROR	5.1	0.0	**	0.0	**	*	18.1	0.0
ROTORCRAFT: TOTAL	% WITH CAPABILITY	95.6	0.0	11.5	0.0	99.7	0.6	21.9	0.0
	ESTIMATED POPULATION	439	0	75	0	430	3	91	0
	% STANDARD ERROR	4.6	0.0	**	0.0	**	*	18.1	0.0
OTHER AIRCRAFT	% WITH CAPABILITY	96.0	0.0	16.3	0.0	93.9	0.6	19.9	0.0
	ESTIMATED POPULATION	0	0	0	0	0	0	0	2
	% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**
GLIDERS:	% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	ESTIMATED POPULATION	0	0	0	0	0	0	0	2
	% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**

8.1 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

PAGE 5 OF 5

AIRCRAFT TYPE	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS									
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF	
LIGHTER-THAN-AIR: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	0	0	0	0	0	0	0	0	0	2	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	
EXPERIMENTAL											
HOME-BUILT: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	0	0	0	0	0	0	0	0	0	0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EXHIBITION: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	0	0	0	0	0	0	0	0	0	0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
OTHER: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	44	0	0	0	84	66	2	16	0	0	
	49.3	0.0	0.0	0.0	**	27.1	*	*	0.0	0.0	
	52.0	0.0	0.0	0.0	100.0	78.2	1.9	18.7	0.0	0.0	
TOTAL ALL AIRCRAFT	2,258	156	673	3	1,991	2,208	390	556	549		
ESTIMATED POPULATION	2.3	**	10.5	45.2	2.9	2.1	12.1	5.7	4.0		
% STANDARD ERROR	76.2	5.3	22.7	0.1	67.2	74.5	13.2	18.8	18.5		
% WITH CAPABILITY											

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.2 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

PAGE 1 OF 2

	REGION	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS									
			AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF	
ALASKAN	ESTIMATED POPULATION	204	0	29	0	189	148	26	21	5		
	% STANDARD ERROR	14.0	0.0	39.0	0.0	15.3	19.3	25.6	49.3	80.5		
	% WITH CAPABILITY	100.0	0.0	14.2	0.0	92.5	72.7	12.7	10.4	2.2		
CENTRAL	ESTIMATED POPULATION	310	0	21	0	294	306	0	76	0		
	% STANDARD ERROR	13.6	0.0	80.7	0.0	13.2	13.8	0.0	50.5	0.0		
	% WITH CAPABILITY	100.0	0.0	6.6	0.0	94.9	98.6	0.0	24.4	0.0		
EASTERN	ESTIMATED POPULATION	245	156	156	0	48	229	156	216	23		
	% STANDARD ERROR	13.2	**	**	0.0	53.6	11.3	**	7.0	84.8		
	% WITH CAPABILITY	97.4	62.1	62.1	0.0	18.9	91.0	62.1	85.9	9.0		
GREAT LAKES	ESTIMATED POPULATION	64	0	36	0	35	36	2	27	422		
	% STANDARD ERROR	48.2	0.0	77.6	0.0	40.6	38.5	**	49.9	**		
	% WITH CAPABILITY	13.3	0.0	7.4	0.0	7.1	7.4	0.4	5.5	86.7		
NEW ENGLAND	ESTIMATED POPULATION	119	0	88	0	86	87	9	3	0		
	% STANDARD ERROR	32.3	0.0	32.4	0.0	44.0	44.4	77.7	**	0.0		
	% WITH CAPABILITY	97.9	0.0	73.0	0.0	71.4	72.0	7.7	2.3	0.0		
NORTHWEST MOUNTAIN	ESTIMATED POPULATION	459	0	153	1	458	417	112	30	0		
	% STANDARD ERROR	8.8	0.0	33.3	**	8.9	9.1	40.2	36.1	0.0		
	% WITH CAPABILITY	99.7	0.0	33.3	0.2	99.5	90.5	24.4	6.6	0.0		

8.2 1993 GENERAL AVIATION AIRCRAFT WITH VHF COMMUNICATIONS EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

PAGE 2 OF 2

REGION	AIRCRAFT SYSTEMS	VHF COMMUNICATIONS								
		AIRCRAFT HAS ELECTRICAL SYSTEM	360 CH PORT	360 CH FXD	720 CH PORT	720 CH FXD	1+ SYS	HF RADIO	COCKPIT VCE REC	NO VHF
SOUTHERN	ESTIMATED POPULATION	428	0	113	2	295	477	49	35	88
	% STANDARD ERROR	8.2	0.0	19.6	67.8	14.5	9.5	20.9	32.7	**
	% WITH CAPABILITY	86.9	0.0	22.9	0.4	59.9	96.8	9.9	7.1	17.9
SOUTHWESTERN	ESTIMATED POPULATION	263	0	36	0	223	152	0	137	3
	% STANDARD ERROR	19.9	0.0	99.6	0.0	16.9	30.4	0.0	31.7	43.8
	% WITH CAPABILITY	100.0	0.0	13.8	0.0	84.9	58.0	0.0	52.1	1.2
WESTERN-PACIFIC	ESTIMATED POPULATION	165	0	40	0	362	356	35	12	9
	% STANDARD ERROR	12.7	0.0	26.0	0.0	12.2	12.2	**	40.1	*
	% WITH CAPABILITY	44.4	0.0	10.7	0.0	97.2	95.5	9.5	3.1	2.5
TOTAL ALL AIRCRAFT	ESTIMATED POPULATION	2,258	156	673	3	1,991	2,208	390	556	549
	% STANDARD ERROR	2.3	**	10.5	45.2	2.9	2.1	12.1	5.7	4.0
	% WITH CAPABILITY	76.2	5.3	22.7	0.1	67.2	74.5	13.2	18.8	18.5

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.3 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT

BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

PAGE 1 OF 5

AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
FIXED WING										
FIXED WING - PISTON										
1 ENG: 1-3 SEATS	2	2	2	548	0	88	41	0	0	422
ESTIMATED POPULATION	**	**	**	**	0.0	**	**	0.0	0.0	**
% STANDARD ERROR	0.4	0.4	0.4	99.1	0.0	15.9	7.3	0.0	0.0	76.3
% WITH CAPABILITY										
1 ENG: 4+ SEATS	263	272	287	121	117	319	0	0	0	125
ESTIMATED POPULATION	16.4	16.0	10.7	10.8	43.1	3.4	0.0	0.0	0.0	8.7
% STANDARD ERROR	59.1	61.3	64.7	27.1	26.4	71.8	0.0	0.0	0.0	28.2
% WITH CAPABILITY										
1 ENGINE: TOTAL	265	274	289	668	117	407	41	0	0	547
ESTIMATED POPULATION	16.3	15.8	10.6	1.9	43.1	2.7	**	0.0	0.0	2.0
% STANDARD ERROR	26.6	27.5	29.0	67.0	11.8	40.8	4.1	0.0	0.0	54.8
% WITH CAPABILITY										
2 ENG: 1-6 SEATS	63	63	63	0	0	63	0	0	0	0
ESTIMATED POPULATION	**	**	**	0.0	0.0	**	0.0	0.0	0.0	0.0
% STANDARD ERROR	100.0	100.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY										
2 ENG: 7+ SEATS	490	489	490	16	12	479	0	0	0	25
ESTIMATED POPULATION	3.1	3.1	3.1	96.2	*	4.0	0.0	0.0	0.0	76.7
% STANDARD ERROR	96.9	96.9	96.9	3.1	2.4	94.8	0.0	0.0	0.0	5.0
% WITH CAPABILITY										
2 ENGINE: TOTAL	552	552	552	16	12	542	0	0	0	25
ESTIMATED POPULATION	2.7	2.7	2.7	96.2	*	3.6	0.0	0.0	0.0	76.7
% STANDARD ERROR	97.3	97.2	97.3	2.7	2.1	95.4	0.0	0.0	0.0	4.4
% WITH CAPABILITY										

8.3 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

PAGE 2 OF 5

AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
PISTON: OTHER										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PISTON: TOTAL										
ESTIMATED POPULATION	817	827	842	684	129	949	41	0	0	572
% STANDARD ERROR	5.6	5.6	4.0	2.9	40.6	2.3	**	0.0	0.0	3.9
% WITH CAPABILITY	52.2	52.8	53.8	43.7	8.3	60.6	2.6	0.0	0.0	36.5
FIXED WING - TURBOPROP										
1 ENGINE: TOTAL										
ESTIMATED POPULATION	98	98	98	1	0	98	0	0	0	1
% STANDARD ERROR	**	**	**	**	0.0	**	0.0	0.0	0.0	**
% WITH CAPABILITY	98.9	98.9	98.9	1.1	0.0	98.9	0.0	0.0	0.0	1.1
2 ENG: 1-12 SEATS										
ESTIMATED POPULATION	521	521	520	0	241	503	6	0	0	12
% STANDARD ERROR	**	**	0.5	0.0	**	2.6	*	0.0	0.0	97.2
% WITH CAPABILITY	100.0	100.0	99.7	0.0	46.3	96.5	1.2	0.0	0.0	2.2
2 ENG: 13+ SEATS										
ESTIMATED POPULATION	216	216	216	0	141	86	9	36	0	14
% STANDARD ERROR	**	**	**	0.0	3.8	6.0	29.1	99.6	0.0	38.0
% WITH CAPABILITY	100.0	100.0	100.0	0.0	65.5	39.6	4.1	16.9	0.0	6.3
2 ENGINE: TOTAL										
ESTIMATED POPULATION	737	737	736	0	383	588	15	36	0	25
% STANDARD ERROR	**	**	0.3	0.0	1.4	2.4	60.1	99.6	0.0	49.3
% WITH CAPABILITY	100.0	100.0	99.8	0.0	51.9	79.9	2.1	4.9	0.0	3.4

8.3 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
TURBOPROP: OTHER										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOPROP: TOTAL										
ESTIMATED POPULATION	835	835	834	1	383	687	15	36	0	26
% STANDARD ERROR	**	**	0.3	**	1.4	2.1	60.1	99.6	0.0	47.2
% WITH CAPABILITY	99.9	99.9	99.7	0.1	45.7	82.1	1.8	4.4	0.0	3.1
FIXED WING - TURBOJET										
2 ENGINE TURBOJET										
ESTIMATED POPULATION	17	17	17	0	3	17	0	0	0	0
% STANDARD ERROR	**	**	**	0.0	**	**	0.0	0.0	0.0	0.0
% WITH CAPABILITY	100.0	100.0	100.0	0.0	18.6	100.0	0.0	0.0	0.0	0.0
TURBOJET: OTHER										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOJET: TOTAL										
ESTIMATED POPULATION	17	17	17	0	3	17	0	0	0	0
% STANDARD ERROR	**	**	**	0.0	**	**	0.0	0.0	0.0	0.0
% WITH CAPABILITY	100.0	100.0	100.0	0.0	18.6	100.0	0.0	0.0	0.0	0.0
FIXED WING: TOTAL										
ESTIMATED POPULATION	1,670	1,679	1,693	685	515	1,653	56	36	0	598
% STANDARD ERROR	2.7	2.7	2.0	2.9	10.2	1.6	16.5	99.6	0.0	4.2
% WITH CAPABILITY	69.0	69.4	70.0	28.3	21.3	68.3	2.3	1.5	0.0	24.7

8.3 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
ROTORCRAFT										
PISTON										
ESTIMATED POPULATION	6	6	6	35	0	38	0	0	0	2
% STANDARD ERROR	64.1	64.1	64.1	10.3	0.0	**	0.0	0.0	0.0	**
% WITH CAPABILITY	13.9	13.9	13.9	86.1	0.0	94.0	0.0	0.0	0.0	6.0
1 ENG: TURBINE										
ESTIMATED POPULATION	2	2	2	189	41	192	0	0	0	0
% STANDARD ERROR	**	**	**	**	33.8	**	0.0	0.0	0.0	0.0
% WITH CAPABILITY	1.1	1.1	1.1	98.9	21.5	100.0	0.0	0.0	0.0	0.0
MULTI-ENG: TURBINE										
ESTIMATED POPULATION	198	192	193	26	0	225	0	0	0	1
% STANDARD ERROR	**	8.0	7.9	**	0.0	**	0.0	0.0	0.0	**
% WITH CAPABILITY	87.9	85.0	85.5	11.6	0.0	99.5	0.0	0.0	0.0	0.5
TURBINE TOTAL:										
ESTIMATED POPULATION	200	194	195	216	41	416	0	0	0	1
% STANDARD ERROR	**	7.9	7.9	**	33.8	**	0.0	0.0	0.0	**
% WITH CAPABILITY	48.0	46.5	46.8	51.7	9.9	99.7	0.0	0.0	0.0	0.3
ROTORCRAFT: TOTAL										
ESTIMATED POPULATION	206	200	201	250	41	454	0	0	0	4
% STANDARD ERROR	1.7	7.9	7.8	1.4	33.8	**	0.0	0.0	0.0	**
% WITH CAPABILITY	45.0	43.6	43.9	54.7	9.0	99.2	0.0	0.0	0.0	0.8
OTHER AIRCRAFT										
GLIDERS:										
ESTIMATED POPULATION	0	0	0	2	0	0	0	0	0	2
% STANDARD ERROR	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0

8.3 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
LIGHTER-THAN-AIR:										
ESTIMATED POPULATION	0	0	0	2	0	0	0	0	0	2
% STANDARD ERROR	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0
EXPERIMENTAL										
HOME-BUILT:										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EXHIBITION:										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER:										
ESTIMATED POPULATION	66	66	66	18	4	80	0	0	0	0
% STANDARD ERROR	27.1	27.1	27.1	97.0	*	12.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	78.2	78.2	78.2	21.8	5.2	94.8	0.0	0.0	0.0	0.0
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	1,941	1,945	1,959	958	561	2,186	56	36	0	606
% STANDARD ERROR	2.5	2.7	2.1	2.8	9.9	1.3	16.5	99.6	0.0	4.2
% WITH CAPABILITY	65.5	65.6	66.1	32.3	18.9	73.8	1.9	1.2	0.0	20.4

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.4 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

PAGE 1 OF 2

REGION	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
ALASKAN										
ESTIMATED POPULATION	131	134	134	63	17	121	0	0	0	78
% STANDARD ERROR	22.0	18.7	18.7	17.5	73.6	22.2	0.0	0.0	0.0	17.0
% WITH CAPABILITY	64.2	65.8	65.8	31.0	8.4	59.5	0.0	0.0	0.0	38.0
CENTRAL										
ESTIMATED POPULATION	310	310	310	0	69	241	0	0	0	0
% STANDARD ERROR	13.6	13.6	13.6	0.0	54.8	7.6	0.0	0.0	0.0	0.0
% WITH CAPABILITY	100.0	100.0	100.0	0.0	22.4	77.6	0.0	0.0	0.0	0.0
EASTERN										
ESTIMATED POPULATION	252	252	252	0	172	194	0	0	0	48
% STANDARD ERROR	12.8	12.8	12.8	0.0	12.1	7.5	0.0	0.0	0.0	48.1
% WITH CAPABILITY	100.0	100.0	100.0	0.0	68.6	77.1	0.0	0.0	0.0	18.9
GREAT LAKES										
ESTIMATED POPULATION	63	63	37	423	3	64	0	0	0	422
% STANDARD ERROR	49.3	49.3	38.3	**	43.6	48.5	0.0	0.0	0.0	**
% WITH CAPABILITY	13.0	13.0	7.6	87.0	0.7	13.2	0.1	0.0	0.0	86.7
NEW ENGLAND										
ESTIMATED POPULATION	89	89	89	33	54	114	0	0	0	7
% STANDARD ERROR	42.9	42.9	42.9	22.2	51.5	33.4	0.0	0.0	0.0	*
% WITH CAPABILITY	73.1	73.1	73.1	26.9	44.5	94.0	0.0	0.0	0.0	6.0
NORTHWEST MOUNTAIN										
ESTIMATED POPULATION	313	313	362	97	185	410	15	0	0	43
% STANDARD ERROR	17.7	17.7	10.1	17.9	24.9	9.6	61.5	0.0	0.0	7.6
% WITH CAPABILITY	67.9	67.9	78.7	21.0	40.1	89.0	3.2	0.0	0.0	9.4

8.4 1993 GENERAL AVIATION AIRCRAFT WITH PRECISION APPROACH AND TRANSPONDER EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

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REGION	PRECISION APPROACH EQUIPMENT				TRANSPONDER EQUIPMENT					
	LOCALIZER	MARKER BEACON	GLIDE SLOPE	NO PREC EQUIP	MODE A TRANSP	MODE C TRANSP	MODE S TRANSP	TCAS I	TCAS II	NO TRANS EQUIP
SOUTHERN										
ESTIMATED POPULATION	333	333	333	160	15	450	41	0	0	2
% STANDARD ERROR	12.2	12.2	12.2	15.8	**	10.2	**	0.0	0.0	**
% WITH CAPABILITY	67.6	67.6	67.6	32.4	3.1	91.3	8.2	0.0	0.0	0.5
SOUTHWESTERN										
ESTIMATED POPULATION	148	148	148	115	36	223	0	36	0	3
% STANDARD ERROR	30.9	30.9	30.9	24.0	99.6	16.9	0.0	99.6	0.0	43.8
% WITH CAPABILITY	56.2	56.2	56.2	43.8	13.8	84.9	0.0	13.8	0.0	1.2
WESTERN-PACIFIC										
ESTIMATED POPULATION	304	304	295	68	8	370	0	0	0	3
% STANDARD ERROR	14.3	14.3	14.7	21.2	53.6	12.3	0.0	0.0	0.0	**
% WITH CAPABILITY	81.5	81.5	79.1	18.2	2.2	99.2	0.0	0.0	0.0	0.8
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	1,941	1,945	1,959	958	561	2,186	56	36	0	606
% STANDARD ERROR	2.5	2.7	2.1	2.8	9.9	1.3	16.5	99.6	0.0	4.2
% WITH CAPABILITY	65.5	65.6	66.1	32.3	18.9	73.8	1.9	1.2	0.0	20.4

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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BASIC NAVIGATION EQUIPMENT									
AIRCRAFT TYPE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV	
FIXED WING									
FIXED WING - PISTON									
1 ENG: 1-3 SEATS									
ESTIMATED POPULATION	0	41	88	0	88	2	2	0	
% STANDARD ERROR	0.0	**	**	0.0	**	**	**	0.0	
% WITH CAPABILITY	0.0	7.3	15.9	0.0	15.9	0.4	0.4	0.0	
1 ENG: 4+ SEATS									
ESTIMATED POPULATION	0	103	1	269	303	263	89	0	
% STANDARD ERROR	0.0	49.1	*	11.9	3.4	16.7	33.8	0.0	
% WITH CAPABILITY	0.0	23.2	0.1	60.6	68.2	59.3	20.0	0.0	
1 ENGINE: TOTAL									
ESTIMATED POPULATION	0	144	88	269	391	266	91	0	
% STANDARD ERROR	0.0	35.3	2.4	11.9	2.6	16.5	33.0	0.0	
% WITH CAPABILITY	0.0	14.4	8.9	27.0	39.2	26.6	9.1	0.0	
2 ENG: 1-6 SEATS									
ESTIMATED POPULATION	0	42	0	21	60	63	60	19	
% STANDARD ERROR	0.0	1.9	0.0	3.8	**	**	**	**	
% WITH CAPABILITY	0.0	66.2	0.0	33.8	94.9	100.0	94.9	30.3	
2 ENG: 7+ SEATS									
ESTIMATED POPULATION	0	116	18	374	465	447	400	249	
% STANDARD ERROR	0.0	26.1	83.1	8.3	4.7	5.7	6.3	5.0	
% WITH CAPABILITY	0.0	23.0	3.6	74.0	92.0	88.5	79.3	49.3	
2 ENGINE: TOTAL									
ESTIMATED POPULATION	0	158	18	395	524	510	460	268	
% STANDARD ERROR	0.0	19.3	83.1	7.8	4.1	5.0	5.5	4.6	
% WITH CAPABILITY	0.0	27.8	3.2	69.6	92.3	89.8	81.0	47.2	

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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LONG RANGE NAVIGATION EQUIPMENT

AIRCRAFT TYPE	-----LORAN-----				OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR		
FIXED WING						
FIXED WING - PISTON						
1 ENG: 1-3 SEATS						
ESTIMATED POPULATION	0	88	0	0	0	0
% STANDARD ERROR	0.0	**	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	15.9	0.0	0.0	0.0	0.0
1 ENG: 4+ SEATS						
ESTIMATED POPULATION	0	109	0	0	0	0
% STANDARD ERROR	0.0	28.1	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	24.6	0.0	0.0	0.0	0.0
1 ENGINE: TOTAL						
ESTIMATED POPULATION	0	197	0	0	0	0
% STANDARD ERROR	0.0	15.6	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	19.8	0.0	0.0	0.0	0.0
2 ENG: 1-6 SEATS						
ESTIMATED POPULATION	36	38	1	1	0	0
% STANDARD ERROR	2.2	2.5	72.8	72.8	0.0	0.0
% WITH CAPABILITY	57.8	61.0	1.8	1.8	0.0	0.0
2 ENG: 7+ SEATS						
ESTIMATED POPULATION	21	64	22	0	0	0
% STANDARD ERROR	53.2	40.4	52.3	0.0	0.0	0.0
% WITH CAPABILITY	4.1	12.6	4.4	0.0	0.0	0.0
2 ENGINE: TOTAL						
ESTIMATED POPULATION	57	102	23	1	0	0
% STANDARD ERROR	19.5	25.2	50.0	72.8	0.0	0.0
% WITH CAPABILITY	10.1	17.9	4.1	0.2	0.0	0.0

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

PAGE 3 OF 15

AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM			
FIXED WING							
FIXED WING - PISTON							
1 ENG: 1-3 SEATS							
ESTIMATED POPULATION	0	0	0	0	0	0	462
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	83.6
1 ENG: 4+ SEATS							
ESTIMATED POPULATION	10	0	0	0	0	26	163
% STANDARD ERROR	59.7	0.0	0.0	0.0	0.0	35.5	27.0
% WITH CAPABILITY	2.2	0.0	0.0	0.0	0.0	5.8	36.6
1 ENGINE: TOTAL							
ESTIMATED POPULATION	10	0	0	0	0	26	625
% STANDARD ERROR	59.7	0.0	0.0	0.0	0.0	35.5	7.0
% WITH CAPABILITY	1.0	0.0	0.0	0.0	0.0	2.6	62.7
2 ENG: 1-6 SEATS							
ESTIMATED POPULATION	13	16	37	1	10	0	0
% STANDARD ERROR	7.5	**	2.1	72.8	8.3	0.0	0.0
% WITH CAPABILITY	20.2	25.2	59.6	1.8	15.4	0.0	0.0
2 ENG: 7+ SEATS							
ESTIMATED POPULATION	257	319	11	3	41	30	30
% STANDARD ERROR	8.0	7.7	83.1	45.1	47.0	64.0	64.0
% WITH CAPABILITY	51.0	63.1	2.2	0.5	8.0	6.0	6.0
2 ENGINE: TOTAL							
ESTIMATED POPULATION	270	335	49	4	50	30	30
% STANDARD ERROR	7.7	7.3	19.2	38.4	37.9	64.0	64.0
% WITH CAPABILITY	47.6	58.9	8.6	0.7	8.8	5.4	5.4

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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BASIC NAVIGATION EQUIPMENT

AIRCRAFT TYPE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
PISTON: OTHER								
ESTIMATED POPULATION	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PISTON: TOTAL								
ESTIMATED POPULATION	0	302	106	664	915	775	551	268
% STANDARD ERROR	0.0	19.6	14.3	6.7	2.6	6.5	7.1	4.6
% WITH CAPABILITY	0.0	19.3	6.8	42.5	58.5	49.6	35.2	17.1
FIXED WING - TURBOPROP								
1 ENGINE: TOTAL								
ESTIMATED POPULATION	0	0	0	98	98	98	98	0
% STANDARD ERROR	0.0	0.0	0.0	**	**	**	**	0.0
% WITH CAPABILITY	0.0	0.0	0.0	98.9	98.9	98.9	98.9	0.0
2 ENG: 1-12 SEATS								
ESTIMATED POPULATION	0	2	0	345	509	509	509	364
% STANDARD ERROR	0.0	**	0.0	3.3	2.2	2.2	2.2	9.0
% WITH CAPABILITY	0.0	0.4	0.0	66.2	97.8	97.8	97.8	69.8
2 ENG: 13+ SEATS								
ESTIMATED POPULATION	3	36	1	162	203	203	203	12
% STANDARD ERROR	40.8	99.6	*	22.7	2.5	2.5	2.5	30.8
% WITH CAPABILITY	1.5	16.9	0.6	74.8	93.8	93.8	93.8	5.7
2 ENGINE: TOTAL								
ESTIMATED POPULATION	3	39	1	506	712	712	712	376
% STANDARD ERROR	40.8	94.1	*	7.6	1.7	1.7	1.7	8.8
% WITH CAPABILITY	0.4	5.2	0.2	68.7	96.6	96.6	96.6	51.0

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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LONG RANGE NAVIGATION EQUIPMENT

AIRCRAFT TYPE	-----LORAN-----						OMEGA	OTHER LRNAV
	L	R	NAV	VFR ONLY	IFR NAV	APP IFR		
PISTON: OTHER								
ESTIMATED POPULATION	0			0	0	0	0	0
% STANDARD ERROR	0.0			0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0			0.0	0.0	0.0	0.0	0.0
PISTON: TOTAL	57			299	23	1	0	0
ESTIMATED POPULATION	19.5			13.4	50.0	72.8	0.0	0.0
% STANDARD ERROR	3.7			19.1	1.5	0.1	0.0	0.0
% WITH CAPABILITY								
FIXED WING - TURBOPROP								
1 ENGINE: TOTAL	0			0	0	0	0	0
ESTIMATED POPULATION	0.0			0.0	0.0	0.0	0.0	0.0
% STANDARD ERROR	0.0			0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY								
2 ENG: 1-12 SEATS	94			195	259	6	17	0
ESTIMATED POPULATION	24.4			13.6	14.4	36.4	*	0.0
% STANDARD ERROR	18.1			37.5	49.6	1.2	3.2	0.0
% WITH CAPABILITY								
2 ENG: 13+ SEATS	0			0	0	0	0	0
ESTIMATED POPULATION	0.0			0.0	0.0	0.0	0.0	0.0
% STANDARD ERROR	0.0			0.2	0.1	0.0	0.0	0.0
% WITH CAPABILITY								
2 ENGINE: TOTAL	94			196	259	6	17	0
ESTIMATED POPULATION	24.4			13.6	14.4	36.4	*	0.0
% STANDARD ERROR	12.8			26.6	35.1	0.8	2.3	0.0
% WITH CAPABILITY								

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM			
PISTON: OTHER							
ESTIMATED POPULATION	0	0	0	0		0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0		0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0		0.0	0.0
PISTON: TOTAL							
ESTIMATED POPULATION	280	335	49	4		76	655
% STANDARD ERROR	7.7	7.3	19.2	38.4		27.8	7.3
% WITH CAPABILITY	17.9	21.4	3.1	0.2		4.9	41.9
FIXED WING - TURBOPROP							
1 ENGINE: TOTAL							
ESTIMATED POPULATION	98	98	0	0		0	1
% STANDARD ERROR	**	**	0.0	0.0		0.0	**
% WITH CAPABILITY	98.9	98.9	0.0	0.0		0.0	1.1
2 ENG: 1-12 SEATS							
ESTIMATED POPULATION	481	520	6	209		31	12
% STANDARD ERROR	2.4	0.3	36.4	5.4		80.7	97.2
% WITH CAPABILITY	92.4	99.8	1.2	40.2		5.9	2.2
2 ENG: 13+ SEATS							
ESTIMATED POPULATION	91	117	3	66		1	13
% STANDARD ERROR	40.5	32.9	*	55.5		**	38.7
% WITH CAPABILITY	42.1	54.0	1.2	30.6		0.5	6.2
2 ENGINE: TOTAL							
ESTIMATED POPULATION	572	636	9	275		32	25
% STANDARD ERROR	6.7	6.0	40.4	13.9		78.2	49.7
% WITH CAPABILITY	77.7	86.4	1.2	37.4		4.3	3.4

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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BASIC NAVIGATION EQUIPMENT

AIRCRAFT TYPE	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
TURBOPROP: OTHER								
ESTIMATED POPULATION	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOPROP: TOTAL								
ESTIMATED POPULATION	3	39	1	605	810	810	810	376
% STANDARD ERROR	40.8	94.1	*	6.3	1.5	1.5	1.5	8.8
% WITH CAPABILITY	0.4	4.6	0.2	72.3	96.9	96.9	96.9	45.0
FIXED WING - TURBOJET								
2 ENGINE TURBOJET								
ESTIMATED POPULATION	0	0	0	9	17	17	17	17
% STANDARD ERROR	0.0	0.0	0.0	48.6	**	**	**	**
% WITH CAPABILITY	0.0	0.0	0.0	50.0	100.0	100.0	100.0	100.0
TURBOJET: OTHER								
ESTIMATED POPULATION	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOJET: TOTAL								
ESTIMATED POPULATION	0	0	0	9	17	17	17	17
% STANDARD ERROR	0.0	0.0	0.0	48.6	**	**	**	**
% WITH CAPABILITY	0.0	0.0	0.0	50.0	100.0	100.0	100.0	100.0
FIXED WING: TOTAL								
ESTIMATED POPULATION	3	340	108	1,278	1,743	1,603	1,378	661
% STANDARD ERROR	40.8	20.4	14.2	4.6	1.5	3.3	3.0	5.3
% WITH CAPABILITY	0.1	14.1	4.5	52.8	72.1	66.3	57.0	27.3

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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LONG RANGE NAVIGATION EQUIPMENT

AIRCRAFT TYPE	LORAN-----				OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR		
TURBOPROP: OTHER						
ESTIMATED POPULATION	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0
TURBOPROP: TOTAL						
ESTIMATED POPULATION	94	196	259	6	17	0
% STANDARD ERROR	24.4	13.6	14.4	36.4	*	0.0
% WITH CAPABILITY	11.3	23.4	30.9	0.7	2.0	0.0
FIXED WING - TURBOJET						
2 ENGINE TURBOJET						
ESTIMATED POPULATION	9	1	0	0	8	0
% STANDARD ERROR	48.6	*	0.0	0.0	52.8	0.0
% WITH CAPABILITY	50.0	6.4	0.0	0.0	43.6	0.0
TURBOJET: OTHER						
ESTIMATED POPULATION	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0
TURBOJET: TOTAL						
ESTIMATED POPULATION	9	1	0	0	8	0
% STANDARD ERROR	48.6	*	0.0	0.0	52.8	0.0
% WITH CAPABILITY	50.0	6.4	0.0	0.0	43.6	0.0
FIXED WING: TOTAL						
ESTIMATED POPULATION	160	496	282	7	24	0
% STANDARD ERROR	16.2	9.7	13.8	32.8	97.8	0.0
% WITH CAPABILITY	6.6	20.5	11.7	0.3	1.0	0.0

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM				
TURBOPROP: OTHER									
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOPROP: TOTAL									
ESTIMATED POPULATION	671	735	9	275	32	26			
% STANDARD ERROR	5.8	5.2	40.4	13.9	78.2	47.6			
% WITH CAPABILITY	80.2	87.9	1.0	32.9	3.8	3.1			
FIXED WING - TURBOJET									
2 ENGINE TURBOJET									
ESTIMATED POPULATION	17	17	0	4	5	0			
% STANDARD ERROR	**	**	0.0	92.0	77.3	0.0			
% WITH CAPABILITY	100.0	100.0	0.0	25.0	31.4	0.0			
TURBOJET: OTHER									
ESTIMATED POPULATION	0	0	0	0	0	0			
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0			
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0			
TURBOJET: TOTAL									
ESTIMATED POPULATION	17	17	0	4	5	0			
% STANDARD ERROR	**	**	0.0	92.0	77.3	0.0			
% WITH CAPABILITY	100.0	100.0	0.0	25.0	31.4	0.0			
FIXED WING: TOTAL									
ESTIMATED POPULATION	968	1,087	57	283	113	681			
% STANDARD ERROR	4.6	4.2	17.4	13.6	29.1	7.3			
% WITH CAPABILITY	40.0	44.9	2.4	11.7	4.7	28.2			

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
ROTORCRAFT								
PISTON								
ESTIMATED POPULATION	0	6	0	6	6	6	6	0
% STANDARD ERROR	0.0	64.1	0.0	64.1	64.1	64.1	64.1	0.0
% WITH CAPABILITY	0.0	13.9	0.0	13.9	13.9	13.9	13.9	0.0
1 ENG: TURBINE								
ESTIMATED POPULATION	0	0	54	42	0	4	0	0
% STANDARD ERROR	0.0	0.0	**	66.3	0.0	*	0.0	0.0
% WITH CAPABILITY	0.0	0.0	28.2	22.0	0.0	2.2	0.0	0.0
MULTI-ENG: TURBINE								
ESTIMATED POPULATION	0	1	0	197	172	199	193	0
% STANDARD ERROR	0.0	*	0.0	3.1	8.9	**	7.9	0.0
% WITH CAPABILITY	0.0	0.5	0.0	87.4	76.2	88.4	85.5	0.0
TURBINE TOTAL:								
ESTIMATED POPULATION	0	1	54	239	172	204	193	0
% STANDARD ERROR	0.0	*	**	12.0	8.9	3.7	7.9	0.0
% WITH CAPABILITY	0.0	0.3	12.9	57.4	41.2	48.8	46.3	0.0
ROTORCRAFT: TOTAL								
ESTIMATED POPULATION	0	7	54	245	177	209	199	0
% STANDARD ERROR	0.0	*	**	11.8	8.9	4.0	7.9	0.0
% WITH CAPABILITY	0.0	1.5	11.8	53.6	38.8	45.7	43.4	0.0
OTHER AIRCRAFT								
GLIDERS:								
ESTIMATED POPULATION	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	LONG RANGE NAVIGATION EQUIPMENT					
	L R NAV	VFR ONLY	LORAN	IFR NAV	APP IFR	OMEGA
OTHER LRNAV						
ROTORCRAFT						
PISTON						
ESTIMATED POPULATION	0	25		0	0	0
% STANDARD ERROR	0.0	**		0.0	0.0	0.0
% WITH CAPABILITY	0.0	62.8		0.0	0.0	0.0
1 ENG: TURBINE						
ESTIMATED POPULATION	0	126		0	0	0
% STANDARD ERROR	0.0	16.2		0.0	0.0	0.0
% WITH CAPABILITY	0.0	65.6		0.0	0.0	0.0
MULTI-ENG: TURBINE						
ESTIMATED POPULATION	0	161		90	0	0
% STANDARD ERROR	0.0	9.5		20.7	0.0	0.0
% WITH CAPABILITY	0.0	71.4		40.0	0.0	0.0
TURBINE TOTAL:						
ESTIMATED POPULATION	0	287		90	0	0
% STANDARD ERROR	0.0	8.9		20.7	0.0	0.0
% WITH CAPABILITY	0.0	68.7		21.6	0.0	0.0
ROTORCRAFT: TOTAL						
ESTIMATED POPULATION	0	312		90	0	0
% STANDARD ERROR	0.0	8.2		20.7	0.0	0.0
% WITH CAPABILITY	0.0	68.2		19.7	0.0	0.0
OTHER AIRCRAFT						
GLIDERS:						
ESTIMATED POPULATION	0	0		0	0	0
% STANDARD ERROR	0.0	0.0		0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0		0.0	0.0	0.0

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM			
ROTORCRAFT							
PISTON							
ESTIMATED POPULATION	0	0	0	0	4	6	
% STANDARD ERROR	0.0	0.0	0.0	0.0	**	64.1	
% WITH CAPABILITY	0.0	0.0	0.0	0.0	9.4	13.9	
1 ENG: TURBINE							
ESTIMATED POPULATION	0	0	0	0	79	41	
% STANDARD ERROR	0.0	0.0	0.0	0.0	31.2	33.8	
% WITH CAPABILITY	0.0	0.0	0.0	0.0	41.1	21.5	
MULTI-ENG: TURBINE							
ESTIMATED POPULATION	191	172	0	0	64	0	
% STANDARD ERROR	8.0	8.9	0.0	0.0	27.6	0.0	
% WITH CAPABILITY	84.6	76.4	0.0	0.0	28.3	0.0	
TURBINE TOTAL:							
ESTIMATED POPULATION	191	172	0	0	143	41	
% STANDARD ERROR	8.0	8.9	0.0	0.0	21.2	33.8	
% WITH CAPABILITY	45.7	41.3	0.0	0.0	34.2	9.9	
ROTORCRAFT: TOTAL							
ESTIMATED POPULATION	191	172	0	0	147	47	
% STANDARD ERROR	8.0	8.9	0.0	0.0	20.7	30.7	
% WITH CAPABILITY	41.7	37.7	0.0	0.0	32.0	10.2	
OTHER AIRCRAFT							
GLIDERS:							
ESTIMATED POPULATION	0	0	0	0	0	2	
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	**	
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	100.0	

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
LIGHTER-THAN-AIR:								
ESTIMATED POPULATION	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EXPERIMENTAL								
HOME-BUILT:								
ESTIMATED POPULATION	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EXHIBITION:								
ESTIMATED POPULATION	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER:								
ESTIMATED POPULATION	0	12	0	54	61	66	66	57
% STANDARD ERROR	0.0	*	0.0	38.5	31.2	27.1	27.1	35.8
% WITH CAPABILITY	0.0	14.2	0.0	63.9	73.0	78.2	78.2	67.3
TOTAL ALL AIRCRAFT	3	359	162	1,577	1,982	1,878	1,643	718
ESTIMATED POPULATION	40.8	19.9	9.5	4.4	1.9	3.0	2.9	5.7
% STANDARD ERROR	0.1	12.1	5.5	53.2	66.8	63.4	55.4	24.2

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	LONG RANGE NAVIGATION EQUIPMENT						
	L	R	NAV	VFR ONLY	IFR NAV	APP IFR	OTHER LRNAV
LIGHTER-THAN-AIR: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	0			0	0	0	0
	0.0			0.0	0.0	0.0	0.0
	0.0			0.0	0.0	0.0	0.0
EXPERIMENTAL							
HOME-BUILT: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	0			0	0	0	0
	0.0			0.0	0.0	0.0	0.0
	0.0			0.0	0.0	0.0	0.0
EXHIBITION: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	0			0	0	0	0
	0.0			0.0	0.0	0.0	0.0
	0.0			0.0	0.0	0.0	0.0
OTHER: ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	1			60	4	0	0
	*			32.4	*	0.0	0.0
	1.5			71.4	4.6	0.0	0.0
TOTAL ALL AIRCRAFT ESTIMATED POPULATION % STANDARD ERROR % WITH CAPABILITY	161			868	376	7	0
	16.4			6.7	11.8	32.8	0.0
	5.4			29.3	12.7	0.2	0.0

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.5 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	OTHER NAVIGATION EQUIPMENT					
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	NO NAV EQ
LIGHTER-THAN-AIR:						
ESTIMATED POPULATION	0	0	0	0	0	2
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	100.0
EXPERIMENTAL						
HOME-BUILT:						
ESTIMATED POPULATION	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0
EXHIBITION:						
ESTIMATED POPULATION	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0
OTHER:						
ESTIMATED POPULATION	25	54	5	0	7	0
% STANDARD ERROR	78.0	38.3	*	0.0	*	0.0
% WITH CAPABILITY	30.1	64.2	6.2	0.0	7.8	0.0
TOTAL ALL AIRCRAFT						
ESTIMATED POPULATION	1,184	1,313	63	283	266	732
% STANDARD ERROR	4.3	4.0	23.0	13.6	17.3	7.1
% WITH CAPABILITY	39.9	44.3	2.1	9.6	9.0	24.7

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.6 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

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BASIC NAVIGATION EQUIPMENT

REGION	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
ALASKAN								
ESTIMATED POPULATION	0	11	0	153	91	159	115	32
% STANDARD ERROR	0.0	46.2	0.0	19.3	23.9	18.6	20.7	37.2
% WITH CAPABILITY	0.0	5.3	0.0	75.0	44.8	78.0	56.3	15.8
CENTRAL								
ESTIMATED POPULATION	0	20	4	280	308	310	308	208
% STANDARD ERROR	0.0	90.2	36.9	13.7	13.7	13.6	13.7	0.9
% WITH CAPABILITY	0.0	6.3	1.4	90.3	99.3	100.0	99.3	67.1
EASTERN								
ESTIMATED POPULATION	0	0	0	48	202	204	204	157
% STANDARD ERROR	0.0	0.0	0.0	53.6	12.6	12.5	12.5	**
% WITH CAPABILITY	0.0	0.0	0.0	18.9	80.4	81.1	81.1	62.6
GREAT LAKES								
ESTIMATED POPULATION	0	28	0	35	63	63	36	28
% STANDARD ERROR	0.0	97.8	0.0	40.6	49.3	49.3	38.5	48.9
% WITH CAPABILITY	0.0	5.8	0.0	7.1	13.0	13.0	7.4	5.8
NEW ENGLAND								
ESTIMATED POPULATION	0	10	0	85	87	95	85	8
% STANDARD ERROR	0.0	70.8	0.0	44.5	43.5	40.9	44.0	*
% WITH CAPABILITY	0.0	8.6	0.0	70.5	72.2	78.2	69.9	6.7
NORTHWEST MOUNTAIN								
ESTIMATED POPULATION	0	51	1	364	364	314	210	18
% STANDARD ERROR	0.0	80.8	*	10.1	10.1	17.8	17.5	63.1
% WITH CAPABILITY	0.0	11.1	0.1	79.0	79.0	68.3	45.5	3.9

8.6 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

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LONG RANGE NAVIGATION EQUIPMENT

REGION	-----LORAN-----				OMEGA	OTHER LRNAV
	L R NAV	VFR ONLY	IFR NAV	APP IFR		
ALASKAN						
ESTIMATED POPULATION	11	69	11	0	0	0
% STANDARD ERROR	83.1	29.5	83.1	0.0	0.0	0.0
% WITH CAPABILITY	5.5	33.7	5.5	0.0	0.0	0.0
CENTRAL						
ESTIMATED POPULATION	9	22	6	6	14	0
% STANDARD ERROR	28.9	81.5	36.4	36.4	36.0	0.0
% WITH CAPABILITY	2.8	7.0	2.0	2.0	4.4	0.0
EASTERN						
ESTIMATED POPULATION	0	156	2	0	0	0
% STANDARD ERROR	0.0	**	55.4	0.0	0.0	0.0
% WITH CAPABILITY	0.0	62.1	0.6	0.0	0.0	0.0
GREAT LAKES						
ESTIMATED POPULATION	4	19	0	0	4	0
% STANDARD ERROR	92.0	67.6	0.0	0.0	92.0	0.0
% WITH CAPABILITY	0.9	3.9	0.0	0.0	0.9	0.0
NEW ENGLAND						
ESTIMATED POPULATION	10	91	0	0	3	0
% STANDARD ERROR	*	40.3	0.0	0.0	*	0.0
% WITH CAPABILITY	8.5	75.3	0.0	0.0	2.6	0.0
NORTHWEST MOUNTAIN						
ESTIMATED POPULATION	75	65	77	0	2	0
% STANDARD ERROR	7.7	19.4	11.8	0.0	*	0.0
% WITH CAPABILITY	16.4	14.0	16.7	0.0	0.3	0.0

8.6 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

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REGION	OTHER NAVIGATION EQUIPMENT					GPS SYSTEM	NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM			
ALASKAN							
ESTIMATED POPULATION	84	41	0	14	74	33	
% STANDARD ERROR	22.9	33.7	0.0	52.8	31.3	32.3	
% WITH CAPABILITY	41.2	20.0	0.0	7.0	36.4	16.4	
CENTRAL							
ESTIMATED POPULATION	227	234	6	3	18	0	
% STANDARD ERROR	7.8	7.8	36.4	45.1	28.7	0.0	
% WITH CAPABILITY	73.1	75.6	2.0	0.8	5.8	0.0	
EASTERN							
ESTIMATED POPULATION	193	214	1	191	9	48	
% STANDARD ERROR	7.5	11.8	**	7.6	96.7	48.1	
% WITH CAPABILITY	76.6	85.2	0.4	75.9	3.6	18.9	
GREAT LAKES							
ESTIMATED POPULATION	21	35	0	21	13	422	
% STANDARD ERROR	61.4	39.7	0.0	61.9	44.0	**	
% WITH CAPABILITY	4.4	7.2	0.0	4.4	2.7	86.7	
NEW ENGLAND							
ESTIMATED POPULATION	10	26	0	3	10	1	
% STANDARD ERROR	*	94.4	0.0	**	*	*	
% WITH CAPABILITY	8.1	21.1	0.0	2.3	8.6	0.9	
NORTHWEST MOUNTAIN							
ESTIMATED POPULATION	186	203	5	9	35	137	
% STANDARD ERROR	18.1	17.3	*	94.4	6.6	32.1	
% WITH CAPABILITY	40.4	44.2	1.1	2.0	7.6	29.7	

8.6 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMPUTER AIRCRAFT ONLY

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REGION	BASIC NAVIGATION EQUIPMENT							
	VOR 100CH PORT	VOR 100CH FXD	VOR 200CH PORT	VOR 200CH FXD	1+ VOR	ADF	DME	RNAV
SOUTHERN								
ESTIMATED POPULATION	0	124	103	263	422	327	276	69
% STANDARD ERROR	0.0	20.8	14.7	14.2	9.7	12.5	13.6	34.7
% WITH CAPABILITY	0.0	25.2	20.9	53.3	85.7	66.4	56.0	14.0
SOUTHWESTERN								
ESTIMATED POPULATION	0	48	0	133	148	148	137	12
% STANDARD ERROR	0.0	81.1	0.0	25.3	30.9	30.9	31.7	*
% WITH CAPABILITY	0.0	18.4	0.0	50.6	56.2	56.2	52.1	4.6
WESTERN-PACIFIC								
ESTIMATED POPULATION	3	66	54	216	296	258	273	185
% STANDARD ERROR	40.8	25.0	**	19.3	14.2	15.3	15.5	20.2
% WITH CAPABILITY	0.9	17.6	14.5	58.1	79.4	69.3	73.2	49.6
TOTAL ALL AIRCRAFT								
ESTIMATED POPULATION	3	359	162	1,577	1,982	1,878	1,643	718
% STANDARD ERROR	40.8	19.9	9.5	4.4	1.9	3.0	2.9	5.7
% WITH CAPABILITY	0.1	12.1	5.5	53.2	66.8	63.4	55.4	24.2

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).

AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.6 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

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REGION	LONG RANGE NAVIGATION EQUIPMENT						
	L	R	NAV	VFR ONLY	IFR NAV	APP IFR	OMEGA
-----LORAN-----							
SOUTHERN	16			145	12	1	3
ESTIMATED POPULATION	4.9			16.4	75.9	72.8	**
% STANDARD ERROR	3.3			29.4	2.5	0.2	0.6
% WITH CAPABILITY							
SOUTHWESTERN	0			209	89	0	0
ESTIMATED POPULATION	0.0			17.3	21.1	0.0	0.0
% STANDARD ERROR	0.0			79.6	33.7	0.0	0.0
% WITH CAPABILITY							
WESTERN-PACIFIC	35			92	179	0	0
ESTIMATED POPULATION	**			1.5	20.7	0.0	0.0
% STANDARD ERROR	9.4			24.8	48.2	0.0	0.0
% WITH CAPABILITY							
TOTAL ALL AIRCRAFT	161			868	376	7	26
ESTIMATED POPULATION	16.4			6.7	11.8	32.8	94.6
% STANDARD ERROR	5.4			29.3	12.7	0.2	0.9
% WITH CAPABILITY							

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.6 1993 GENERAL AVIATION AIRCRAFT WITH NAVIGATION EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

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REGION	OTHER NAVIGATION EQUIPMENT					NO NAV EQ
	RADAR ALTIM	WEATHER RADAR	THUNDER STM DET	GPWS SYSTEM	GPS SYSTEM	
<hr/>						
SOUTHERN						
ESTIMATED POPULATION	136	224	15	6	36	49
% STANDARD ERROR	10.5	14.4	65.1	44.8	75.9	6.1
% WITH CAPABILITY	27.6	45.4	3.0	1.1	7.3	10.0
<hr/>						
SOUTHWESTERN						
ESTIMATED POPULATION	135	137	0	36	0	3
% STANDARD ERROR	32.2	31.7	0.0	99.6	0.0	43.8
% WITH CAPABILITY	51.3	52.1	0.0	13.8	0.0	1.2
<hr/>						
WESTERN-PACIFIC						
ESTIMATED POPULATION	192	199	35	0	71	39
% STANDARD ERROR	19.5	18.9	**	0.0	19.7	25.5
% WITH CAPABILITY	51.6	53.3	9.4	0.0	19.0	10.5
<hr/>						
TOTAL ALL AIRCRAFT						
ESTIMATED POPULATION	1,184	1,313	63	283	266	732
% STANDARD ERROR	4.3	4.0	23.0	13.6	17.3	7.1
% WITH CAPABILITY	39.9	44.3	2.1	9.6	9.0	24.7

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.7 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

PAGE 1 OF 5

AIRCRAFT TYPE	FLIGHT DIRECT	EFIS	FL MGT COMPT	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA REC'D	NO GCE
				-----LONGITUDE	-----VERTICAL	-----LATERAL	-----APP MODE			
FIXED WING										
FIXED WING - PISTON										
1 ENG: 1-3 SEATS										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	550
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.5
1 ENG: 4+ SEATS										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	444
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
1 ENGINE: TOTAL										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	994
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7
2 ENG: 1-6 SEATS										
ESTIMATED POPULATION	48	0	0	63	63	55	61	0	0	0
% STANDARD ERROR	2.0	0.0	0.0	**	**	**	**	0.0	0.0	0.0
% WITH CAPABILITY	76.3	0.0	0.0	100.0	100.0	88.1	96.7	0.0	0.0	0.0
2 ENG: 7+ SEATS										
ESTIMATED POPULATION	273	0	0	353	353	353	335	0	0	152
% STANDARD ERROR	0.5	0.0	0.0	7.5	7.5	7.5	8.3	0.0	0.0	17.3
% WITH CAPABILITY	54.1	0.0	0.0	69.8	69.8	69.8	66.3	0.0	0.0	30.2
2 ENGINE: TOTAL										
ESTIMATED POPULATION	321	0	0	416	416	408	396	0	0	152
% STANDARD ERROR	0.5	0.0	0.0	6.3	6.3	6.4	7.0	0.0	0.0	17.3
% WITH CAPABILITY	56.6	0.0	0.0	73.2	73.2	71.8	69.7	0.0	0.0	26.8

8.7 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

PAGE 2 OF 5

AIRCRAFT TYPE	FLIGHT DIRECT	EFIS	FL MGT COMPT	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA REC'D	NO GCE
				-----	-----	-----	-----			
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
PISTON: OTHER										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PISTON: TOTAL										
ESTIMATED POPULATION	321	0	0	416	416	408	396	0	0	1,146
% STANDARD ERROR	0.5	0.0	0.0	6.3	6.3	6.4	7.0	0.0	0.0	2.3
% WITH CAPABILITY	20.5	0.0	0.0	26.6	26.6	26.1	25.3	0.0	0.0	73.3
FIXED WING - TURBOPROP										
1 ENGINE: TOTAL										
ESTIMATED POPULATION	98	0	0	98	98	98	98	0	0	1
% STANDARD ERROR	**	0.0	0.0	**	**	**	**	0.0	0.0	**
% WITH CAPABILITY	98.9	0.0	0.0	98.9	98.9	98.9	98.9	0.0	0.0	1.1
2 ENG: 1-12 SEATS										
ESTIMATED POPULATION	455	6	6	455	455	455	455	0	0	66
% STANDARD ERROR	0.4	36.4	36.4	0.4	0.4	0.4	0.4	0.0	0.0	2.6
% WITH CAPABILITY	87.4	1.2	1.2	87.4	87.4	87.4	87.4	0.0	0.0	12.6
2 ENG: 13+ SEATS										
ESTIMATED POPULATION	92	17	2	45	45	45	45	0	48	121
% STANDARD ERROR	41.4	*	**	80.5	80.5	81.1	81.1	0.0	76.3	31.6
% WITH CAPABILITY	42.6	8.0	0.9	20.8	20.8	20.7	20.7	0.0	22.1	56.0
2 ENGINE: TOTAL										
ESTIMATED POPULATION	547	23	8	500	500	500	500	0	48	187
% STANDARD ERROR	7.0	90.0	23.4	7.2	7.2	7.3	7.3	0.0	76.3	20.5
% WITH CAPABILITY	74.3	3.2	1.1	67.9	67.9	67.8	67.8	0.0	6.5	25.3

8.7 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
FOR COMPUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	FLIGHT DIRECT	EFIS	FL MGT COMPT	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA REC'D	NO GCE
				-----AUTOPILOT-AXIS CONTROLS-----	APP	MODE				
				LONGITUDE	VERTICAL	LATERAL				
TURBOPROP: OTHER										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOPROP: TOTAL										
ESTIMATED POPULATION	646	23	8	599	599	598	598	0	48	188
% STANDARD ERROR	5.9	90.0	23.4	6.1	6.1	6.1	6.1	0.0	76.3	20.4
% WITH CAPABILITY	77.2	2.8	1.0	71.6	71.6	71.5	71.5	0.0	5.7	22.4
FIXED WING - TURBOJET										
2 ENGINE TURBOJET										
ESTIMATED POPULATION	13	4	3	17	17	17	17	0	1	0
% STANDARD ERROR	30.7	92.0	**	**	**	**	**	0.0	*	0.0
% WITH CAPABILITY	75.0	25.0	18.6	100.0	100.0	100.0	100.0	0.0	6.4	0.0
TURBOJET: OTHER										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TURBOJET: TOTAL										
ESTIMATED POPULATION	13	4	3	17	17	17	17	0	1	0
% STANDARD ERROR	30.7	92.0	**	**	**	**	**	0.0	*	0.0
% WITH CAPABILITY	75.0	25.0	18.6	100.0	100.0	100.0	100.0	0.0	6.4	0.0
FIXED WING: TOTAL										
ESTIMATED POPULATION	980	28	11	1,031	1,031	1,023	1,011	0	49	1,334
% STANDARD ERROR	3.9	77.3	16.8	4.3	4.3	4.4	4.5	0.0	74.7	3.5
% WITH CAPABILITY	40.5	1.1	0.5	42.6	42.6	42.3	41.8	0.0	2.0	55.2

8.7 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	FLIGHT DIRECT	EFIS	FL MGT COMPTR	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA REC'D	NO GCE
				-----AUTOPILOT-AXIS CONTROLS-----						
				LONGITUDE	VERTICAL	LATERAL	APP MODE			
ROTORCRAFT										
PISTON										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	40
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
1 ENG: TURBINE										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	192
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
MULTI-ENG: TURBINE										
ESTIMATED POPULATION	84	2	51	119	119	119	118	0	0	55
% STANDARD ERROR	7.1	55.4	34.4	0.7	0.7	0.7	0.8	0.0	0.0	32.2
% WITH CAPABILITY	37.4	0.7	22.8	52.7	52.7	52.7	52.3	0.0	0.0	24.3
TURBINE TOTAL:										
ESTIMATED POPULATION	84	2	51	119	119	119	118	0	0	246
% STANDARD ERROR	7.1	55.4	34.4	0.7	0.7	0.7	0.8	0.0	0.0	7.2
% WITH CAPABILITY	20.2	0.4	12.3	28.5	28.5	28.5	28.3	0.0	0.0	59.0
ROTORCRAFT: TOTAL										
ESTIMATED POPULATION	84	2	51	119	119	119	118	0	0	287
% STANDARD ERROR	7.1	55.4	34.4	0.7	0.7	0.7	0.8	0.0	0.0	6.2
% WITH CAPABILITY	18.4	0.3	11.2	26.0	26.0	26.0	25.8	0.0	0.0	62.6
OTHER AIRCRAFT										
GLIDERS:										
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	2
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

8.7 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY AIRCRAFT TYPE
FOR COMMUTER AIRCRAFT ONLY

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AIRCRAFT TYPE	GUIDANCE AND CONTROL EQUIPMENT										FL DATA REC'D	NO GCE
	FLIGHT DIRECT	EFIS	FL MGT COMPT	-----AUTOPILOT-AXIS CONTROLS----- LONGITUDE	VERTICAL	LATERAL	APP	MODE	AUTO LAND			
LIGHTER-THAN-AIR:												
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0	0	2
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
EXPERIMENTAL												
HOME-BUILT:												
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EXHIBITION:												
ESTIMATED POPULATION	0	0	0	0	0	0	0	0	0	0	0	0
% STANDARD ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% WITH CAPABILITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER:												
ESTIMATED POPULATION	56	0	0	59	58	59	55	55	0	0	0	23
% STANDARD ERROR	36.1	0.0	0.0	33.3	34.5	33.3	37.0	37.0	0.0	0.0	0.0	84.2
% WITH CAPABILITY	66.8	0.0	0.0	70.3	68.8	70.3	65.7	65.7	0.0	0.0	0.0	27.0
TOTAL ALL AIRCRAFT	1,120	29	63	1,210	1,208	1,202	1,184	1,184	0	49	1,648	
ESTIMATED POPULATION	3.9	73.1	28.3	4.0	4.1	4.1	4.2	4.2	0.0	74.7	3.2	
% STANDARD ERROR	37.8	1.0	2.1	40.8	40.8	40.5	40.0	40.0	0.0	1.6	55.6	

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

8.8 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

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REGION	FLIGHT DIRECT	EFIS	FL MGT COMPT	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA REC'D	NO GCE
				-----AUTOPILOT-AXIS CONTROLS-----	LONGITUDE	VERTICAL	LATERAL			
ALASKAN	48	0	0	42	42	35	42	0	0	156
ESTIMATED POPULATION	29.8	0.0	0.0	29.5	29.5	35.9	29.5	0.0	0.0	15.9
% STANDARD ERROR	23.5	0.0	0.0	20.7	20.7	17.0	20.7	0.0	0.0	76.5
% WITH CAPABILITY										
CENTRAL	219	6	6	239	239	239	234	0	0	72
ESTIMATED POPULATION	3.6	36.4	36.4	7.7	7.7	7.7	7.8	0.0	0.0	53.2
% STANDARD ERROR	70.4	2.0	2.0	76.9	76.9	76.9	75.6	0.0	0.0	23.1
% WITH CAPABILITY										
EASTERN	173	17	2	165	165	165	165	0	6	77
ESTIMATED POPULATION	12.0	*	55.4	**	**	**	**	0.0	**	31.7
% STANDARD ERROR	68.8	6.7	0.6	65.7	65.7	65.7	65.7	0.0	2.5	30.8
% WITH CAPABILITY										
GREAT LAKES	10	5	1	14	14	14	14	0	1	471
ESTIMATED POPULATION	40.7	72.6	**	40.5	40.5	41.6	41.6	0.0	**	6.5
% STANDARD ERROR	2.1	1.1	0.2	2.9	2.9	2.8	2.8	0.0	0.3	97.0
% WITH CAPABILITY										
NEW ENGLAND	17	0	0	23	23	23	21	0	0	95
ESTIMATED POPULATION	*	0.0	0.0	*	*	*	*	0.0	0.0	31.7
% STANDARD ERROR	14.0	0.0	0.0	18.9	18.9	18.9	17.1	0.0	0.0	78.8
% WITH CAPABILITY										
NORTHWEST MOUNTAIN	185	1	1	172	170	172	167	0	2	270
ESTIMATED POPULATION	16.8	**	**	19.0	19.0	19.0	18.9	0.0	*	8.9
% STANDARD ERROR	40.1	0.2	0.2	37.3	37.0	37.3	36.2	0.0	0.4	58.7
% WITH CAPABILITY										

8.8 1993 GENERAL AVIATION AIRCRAFT WITH GUIDANCE AND CONTROL EQUIPMENT
BY REGION OF BASED AIRCRAFT
FOR COMMUTER AIRCRAFT ONLY

PAGE 2 OF 2

REGION	FLIGHT DIRECT	EFIS	FL MGT COMPT	GUIDANCE AND CONTROL EQUIPMENT				AUTO LAND	FL DATA RECORDER	NO GCE
				-----AUTOPILOT-AXIS CONTROLS-----	LONGITUDE	VERTICAL	LATERAL			
SOUTHERN	ESTIMATED POPULATION	198	0	249	249	249	249	0	3	229
	% STANDARD ERROR	12.6	0.0	14.5	14.5	14.5	14.5	0.0	96.3	13.8
	% WITH CAPABILITY	40.3	0.0	50.5	50.5	50.5	50.5	0.0	0.6	46.5
SOUTHWESTERN	ESTIMATED POPULATION	51	0	85	85	85	85	0	36	126
	% STANDARD ERROR	77.8	0.0	46.6	46.6	46.6	46.6	0.0	99.6	24.6
	% WITH CAPABILITY	19.2	0.0	32.4	32.4	32.4	32.4	0.0	13.8	47.9
WESTERN-PACIFIC	ESTIMATED POPULATION	220	0	221	221	221	221	0	0	150
	% STANDARD ERROR	16.9	0.0	16.8	16.8	16.8	16.8	0.0	0.0	17.2
	% WITH CAPABILITY	59.1	0.0	59.3	59.3	59.3	59.3	0.0	0.0	40.4
TOTAL ALL AIRCRAFT										
ESTIMATED POPULATION	1,120	29	63	1,210	1,208	1,202	1,184	0	49	1,648
% STANDARD ERROR	3.9	73.1	28.3	4.0	4.1	4.1	4.2	0.0	74.7	3.2
% WITH CAPABILITY	37.8	1.0	2.1	40.8	40.8	40.5	40.0	0.0	1.6	55.6

NOTE: COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).

AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

CHAPTER IX

NATIONAL AIRSPACE SYSTEM (NAS) CAPABILITY GROUPS BASED ON AVIONICS

CHAPTER IX

NATIONAL AIRSPACE SYSTEM (NAS) CAPABILITY GROUPS BASED ON AVIONICS

Estimates of the number of aircraft containing various individual pieces of avionics equipment (the basis for Chapter VII) do not provide enough information to determine an aircraft's overall ability to use the National Airspace System (NAS). To obtain a certain capability or privilege, an aircraft may be required to have several pieces of avionics gear. This requirement led to the study of groups of avionics equipment, rather than individual pieces, and to the development of two avionics capability group classifications, hierarchical and nonhierarchical. These two capability group classifications provide a framework for the general aviation fleet by relating airborne avionics equipment groups to aircraft capability to perform in the NAS, and they facilitate analysis of the activity and characteristics of the general aviation fleet.

This chapter presents two figures and 11 tables on hierarchical and nonhierarchical statistics. Figures 9.1 and 9.2 list the hierarchical and nonhierarchical capability groups, respectively. Tables 9.1-9.5 consider hierarchical capability groups in eight different categories, by: aircraft type, age of aircraft, total flight hour groups, primary use, and region of based aircraft, respectively. Tables 9.7-9.11 present nonhierarchical capability groups in five categories. The table in between these two groups, Table 9.6, is a comparison between nonhierarchical and hierarchical capability groups.

The hierarchical class consists of avionics groupings which comply with FAA requirements for use in various aspects of the NAS. FAA regulations address three basic capabilities, the capability to: (a) fly in different segments of the airspace; (b) fly under visual flight rules (VFR) and instrument flight rules (IFR); and (c) land at different classes of airports. These groups are called hierarchical because, in general, the avionics equipment and associated capabilities for one capability group are a subset of the avionics equipment and associated capabilities for the next higher group, and so on.

The second class of capability groups, nonhierarchical, consists of avionics groupings not required by FAA regulations, but which give an aircraft additional capability in the NAS. The nonhierarchical groups were formed by grouping together component pieces of avionics equipment which, as a whole, form a complete avionics system. A complete avionics system enables an aircraft to make full use of a communications, navigation, or surveillance system in the NAS.

Figure 9.1
HIERARCHICAL CAPABILITY GROUPS

GROUP	AVIONICS	CAPABILITIES
1	No Regulatory Avionics	<p>A. • Up to and including 12,000 feet Mean Sea Level (MSL). • Gliders—up to and including 18,000 feet Mean Sea Level (MSL). • ADF—Colored airways below 12,500 feet MSL. • VOR or RNAV—VOR airways below 12,500 feet MSL. • RNAV—Low altitude RNAV airways below 12,500 feet MSL.</p> <p>B. • VFR flight, day and night.</p> <p>C. • Uncontrolled airports.</p>
2	Two-way Communications	<p>A. • Up to and including 12,500 feet Mean Sea Level (MSL). • Gliders—up to and including 18,000 feet Mean Sea Level (MSL).</p> <p>B. • VFR flight, day and night.</p> <p>C. • Non-TCA controlled airports. • Group III TCAs. • Helicopter with 4096 code transponders Group III TCAs • Helicopters—Group I and II TCAs below 1,000 feet Above Ground Level (AGL).</p> <p>NOTE: Air taxis with navigation system and transponder: Group II TCAs.</p> <p>Air taxis with navigation system, transponder and altitude reporting: Group I TCAs and non-positive controlled airspace.</p> <p>Air taxis with navigation system, DME, transponder and altitude reporting: Group I TCAs and positive controlled airspace.</p>
3	Two-way Communications Two Systems—Air Taxis Very High Frequency Omni-Directional Radio Range (VOR) or Automatic Direction Finder (ADF) or Area Navigational Equipment (RNAV)	<p>A. • Up to and including 12,500 feet Mean Sea Level (MSL). • Gliders up to and including 18,000 feet Mean Sea Level (MSL). • ADF—Colored airways below 12,500 feet MSL. • VOR or RNAV—VOR airways below 12,500 feet MSL. • RNAV—Low altitude RNAV airways below 12,500 feet MSL.</p> <p>B. • IFR flight.</p> <p>C. • Non-TCA controlled airways. • Group III TCAs. • Helicopter with 4096 code transponders Group III TCAs • Helicopters—Group I and II TCAs below 1,000 feet Above Ground Level (AGL).</p>

Figure 9.1

HIERARCHICAL CAPABILITY GROUPS (Cont.)

GROUP	AVIONICS	CAPABILITIES
4	Two-way Communications Two Systems—Air Taxis 4096 Code Transponder VOR or RNAV	A. <ul style="list-style-type: none"> Up to and including 12,500 feet Mean Sea Level (MSL). Gliders up to and including 18,000 feet Mean Sea Level MSL). VOR airways below 12,500 feet MSL. RNAV—Low altitude RNAV airways below 12,500 feet MSL. B. <ul style="list-style-type: none"> IFR flight. C. <ul style="list-style-type: none"> Non-TCA controlled airways. Group II TCAs. Helicopter—Group I TCAs below 1,000 feet AGL.
5	4096 Code Transponder Altitude Encoding Equipment	A. <ul style="list-style-type: none"> Non-positive controlled airspace. B. <ul style="list-style-type: none"> VFR flight, day and night. C. <ul style="list-style-type: none"> Uncontrolled airports. Group III TCAs.
6	Two-way Communications 4096 Code Transponder Altitude Encoding Equipment	A. <ul style="list-style-type: none"> Non-positive controlled airspace. B. <ul style="list-style-type: none"> VFR flight, day and night. C. <ul style="list-style-type: none"> Uncontrolled airports. Group III TCAs. Helicopters—Group I TCAs.
7	Two-way Communications 4096 Code Transponder Altitude Encoding Equipment VOR	A. <ul style="list-style-type: none"> Non-positive controlled airspace. VOR airways. B. <ul style="list-style-type: none"> IFR flight. C. <ul style="list-style-type: none"> Group I TCAs.
8	Two-way Communications 4096 Code Transponder Altitude Encoding Equipment VOR and/or RNAV Distance Measuring Equipment (DME)	A. <ul style="list-style-type: none"> Positive controlled airspace. Jet routes. RNAV—RNAV routes. B. <ul style="list-style-type: none"> IFR flight. C. <ul style="list-style-type: none"> Uncontrolled airports. Group I TCAs.
A. Airport Segment B. Flight Rules C. Airport Class		

Figure 9.2

NONHIERARCHICAL CAPABILITY GROUPS

GROUP	AVIONICS	CAPABILITIES
1	Localizer (LOC)	Partial use of airport Instrument Landing System (ILS)
2	LOC, Marker Beacon (MB)	Partial use of airport ILS.
3	LOC, MB, Glide Slope (GS)	full use of airport ILS.
4	Long Range Navigation (LRNAV) (LORAN, VFR only, Enroute IFR, Terminal IFR and Omega or other Visual Flight Rules only)	Area navigation over long distances and large bodies of water.
5	Radar Altimeter (RA)	Determination of altitude above level of terrain.
No Group	No Regulatory Avionics	

9.1 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY AIRCRAFT TYPE
INCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 4

AIRCRAFT TYPE	HIERARCHICAL CAPABILITY GROUPS							
	1	2	3	4	5	6	7	8
FIXED - WING								
FIXED WING - PISTON								
1 ENG: 1-3 SEATS	19,092	7,849	9,716	2,203	843	2,945	23,996	2,168
ESTIMATE	3.1	6.6	6.1	13.9	22.9	10.9	2.8	13.0
% STD. ERROR	27.7	11.4	14.1	3.2	1.2	4.3	34.9	3.2
ROW %	60.6	41.9	52.8	25.1	26.4	32.2	31.1	2.7
COLUMN %								28.0
1 ENG: 4+ SEATS	2,205	1,349	4,539	4,286	1,763	1,691	45,223	48,551
ESTIMATE	10.6	14.4	8.5	9.5	15.8	14.9	2.2	2.0
% STD. ERROR	2.0	1.2	4.1	3.9	1.6	1.5	41.3	44.3
ROW %	7.0	7.2	24.6	48.8	55.1	18.5	58.6	61.4
COLUMN %								44.6
2 ENG: 1-6 SEATS	188	43	291	585	65	80	1,961	11,974
ESTIMATE	30.2	57.6	35.3	24.0	53.0	53.0	12.8	2.4
% STD. ERROR	1.2	0.3	1.9	3.9	0.4	0.5	12.9	78.8
ROW %	0.6	0.2	1.6	6.7	2.0	0.9	2.5	15.1
COLUMN %								6.2
2 ENG: 7+ SEATS	253	163	125	90	143	214	495	5,099
ESTIMATE	27.3	43.7	54.7	50.1	47.9	38.3	19.4	3.4
% STD. ERROR	3.8	2.5	1.9	1.4	2.2	3.3	7.5	77.5
ROW %	0.8	0.9	0.7	1.0	4.5	2.3	0.6	6.5
COLUMN %								2.7
PISTON: OTHER	16	11	0	0	0	0	42	26
ESTIMATE	68.8	83.6	0.0	0.0	0.0	0.0	34.5	50.3
% STD. ERROR	16.8	11.6	0.0	0.0	0.0	0.0	44.2	27.4
ROW %	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0
COLUMN %								0.0
FIXED WING - TURBOPROP								
1 ENGINE: TOTAL	164	73	17	104	3	47	56	342
ESTIMATE	24.7	47.1	75.0	48.0	*	43.8	45.6	15.3
% STD. ERROR	20.3	9.0	2.1	12.9	0.4	5.8	6.9	42.4
ROW %	0.5	0.4	0.1	1.2	0.1	0.5	0.1	0.4
COLUMN %								0.3

9.1 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY AIRCRAFT TYPE
INCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 4

HIERARCHICAL CAPABILITY GROUPS

AIRCRAFT TYPE	1	2	3	4	5	6	7	8	TOTAL
2 ENG: 1-12 SEATS	14	0	14	188	44	14	5	3,807	4,086
ESTIMATE	87.1	0.0	*	38.6	86.3	*	75.3	2.2	**
% STD. ERROR	0.3	0.0	0.3	4.6	1.1	0.3	0.1	93.2	
ROW %	0.0	0.0	0.1	2.1	1.4	0.2	0.0	4.8	1.7
COLUMN %									
2 ENG: 13+ SEATS	22	0	8	235	13	5	8	576	868
ESTIMATE	40.5	0.0	77.0	15.3	70.8	85.8	44.1	6.7	**
% STD. ERROR	2.5	0.0	0.9	27.1	1.5	0.6	0.9	66.4	
ROW %	0.1	0.0	0.0	2.7	0.4	0.1	0.0	0.7	0.4
COLUMN %									
TURBOPROP: OTHER	0	0	0	0	0	0	0	71	71
ESTIMATE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	**
% STD. ERROR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	
ROW %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
COLUMN %									
FIXED WING - TURBOJET									
2 ENGINE: TOTAL	18	10	2	495	37	33	24	3,652	4,272
ESTIMATE	81.9	96.5	*	20.8	84.5	56.5	96.4	3.0	**
% STD. ERROR	0.4	0.2	0.0	11.6	0.9	0.8	0.6	85.5	
ROW %	0.1	0.1	0.0	5.6	1.2	0.4	0.0	4.6	1.7
COLUMN %									
TURBOJET: OTHER	46	18	2	92	15	18	31	210	434
ESTIMATE	18.5	32.1	*	23.7	60.9	32.4	23.7	11.3	**
% STD. ERROR	10.6	4.1	0.5	21.2	3.5	4.1	7.1	48.4	
ROW %	0.1	0.1	0.0	1.0	0.5	0.2	0.0	0.3	0.2
COLUMN %									
ROTORCRAFT									
PISTON: TOTAL	1,097	923	342	21	63	1,294	497	36	4,274
ESTIMATE	9.5	11.1	19.2	69.9	39.8	8.3	13.0	53.5	**
% STD. ERROR	25.7	21.6	8.0	0.5	1.5	30.3	11.6	0.8	
ROW %	3.5	4.9	1.9	0.2	2.0	14.2	0.6	0.0	1.7
COLUMN %									

9.1 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY AIRCRAFT TYPE
INCLUDES COMMUTER AIRCRAFT

PAGE 4 OF 4

AIRCRAFT TYPE	HIERARCHICAL CAPABILITY GROUPS							
	1	2	3	4	5	6	7	8
OTHER EXPERIMENTAL	480	557	423	100	32	205	609	969
	21.5	19.7	23.1	50.1	89.2	34.4	18.6	13.8
	14.2	16.5	12.5	3.0	0.9	6.1	18.0	28.7
	1.5	3.0	2.3	1.1	1.0	2.2	0.8	1.2
								1.4
								3,374
								**
ALL AIRCRAFT	31,517	18,713	18,416	8,779	3,197	9,133	77,177	79,039
	2.6	4.0	4.4	6.5	11.3	5.9	1.7	1.4
	12.8	7.6	7.5	3.6	1.3	3.7	31.4	32.1
								245,971

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

HIERARCHICAL CAPABILITY GROUPS KEY

- 1 - NO REGULATORY AVIONICS.
- 2 - TWO-WAY COMMUNICATIONS.
- 3 - TWO-WAY COMMUNICATIONS, TWO SYSTEMS: AIR TAXIS; VOR OR ADF OR RNAV.
- 4 - TWO-WAY COMMUNICATIONS, TWO SYSTEMS: AIR TAXIS; MODE_S CAPABILITY; VOR OR RNAV.
- 5 - TWO-WAY COMMUNICATIONS, MODE_S CAPABILITY, ALTITUDE ENCODING EQUIPMENT.
- 6 - TWO-WAY COMMUNICATIONS, MODE_S CAPABILITY, ALTITUDE ENCODING EQUIPMENT.
- 7 - TWO-WAY COMMUNICATIONS, TWO SYSTEMS: AIR TAXIS; MODE_S CAPABILITY, ALTITUDE ENCODING EQUIPMENT, VOR.
- 8 - TWO-WAY COMMUNICATIONS, TWO SYSTEMS: AIR TAXIS; MODE_S CAPABILITY, ALTITUDE ENCODING EQUIPMENT, VOR AND DME OR RNAV.

9.2 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 3

AGE OF AIRCRAFT	HIERARCHICAL CAPABILITY GROUPS							
	1	2	3	4	5	6	7	8
1 - 5 YEARS	ESTIMATE	1,948	2,279	1,153	891	164	1,128	2,557
	% STD. ERROR	12.9	12.8	21.6	14.5	44.8	16.2	12.3
	ROW %	14.3	16.7	8.4	6.5	1.2	8.3	18.7
	COLUMN %	6.2	12.2	6.3	10.1	5.1	12.4	3.3
6 - 10 YEARS	ESTIMATE	1,320	1,234	299	238	161	614	1,503
	% STD. ERROR	18.8	17.2	40.8	30.0	48.2	25.9	16.8
	ROW %	12.7	11.9	2.9	2.3	1.5	5.9	14.5
	COLUMN %	4.2	6.6	1.6	2.7	5.0	6.7	1.9
11 - 15 YEARS	ESTIMATE	2,055	1,171	428	926	487	967	8,652
	% STD. ERROR	12.0	17.7	26.4	20.5	29.3	18.1	6.6
	ROW %	5.7	3.2	1.2	2.6	1.3	2.7	23.9
	COLUMN %	6.5	6.3	2.3	10.5	15.2	10.6	11.2
16 - 20 YEARS	ESTIMATE	2,370	1,289	1,251	970	720	1,122	14,815
	% STD. ERROR	12.0	17.7	18.1	21.2	24.6	17.6	5.1
	ROW %	5.7	3.1	3.0	2.4	1.7	2.7	35.9
	COLUMN %	7.5	6.9	6.8	11.0	22.5	12.3	19.2
21 - 25 YEARS	ESTIMATE	835	1,149	1,592	740	280	690	10,063
	% STD. ERROR	21.5	18.1	17.3	23.0	39.2	23.7	6.2
	ROW %	3.4	4.7	6.5	3.0	1.1	2.8	40.9
	COLUMN %	2.6	6.1	8.6	8.4	8.8	7.6	13.0
26 - 30 YEARS	ESTIMATE	842	803	1,736	1,227	606	515	14,010
	% STD. ERROR	19.6	20.8	16.4	19.3	27.7	25.7	5.3
	ROW %	2.8	2.7	5.9	4.1	2.0	1.7	47.4
	COLUMN %	2.7	4.3	9.4	14.0	19.0	5.6	18.2
31 - 35 YEARS	ESTIMATE	442	270	1,130	818	136	551	7,579
	% STD. ERROR	25.4	37.7	18.8	23.4	49.1	25.2	7.0
	ROW %	2.9	1.8	7.4	5.4	0.9	3.6	49.7
	COLUMN %	1.4	1.4	6.1	9.3	4.3	6.0	9.8
TOTAL								
								13,666
								4.4
								5.6
								10,395
								5.6
								4.2
								36,243
								2.8
								14.7
								41,274
								2.7
								16.8
								24,586
								3.8
								10.0
								29,588
								3.4
								12.0
								15,260
								4.6
								6.2

9.2 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 3

AGE OF AIRCRAFT	HIERARCHICAL CAPABILITY GROUPS								TOTAL	
	1	2	3	4	5	6	7	8		
36 - 40 YEARS	ESTIMATE	270	626	945	330	130	511	4,988	1,668	9,467
	% STD. ERROR	38.6	25.4	21.3	36.0	57.1	29.2	8.5	14.4	5.9
	ROW % COLUMN %	2.9 0.9	6.6 3.3	10.0 5.1	3.5 3.8	1.4 4.1	5.4 5.6	52.7 6.5	17.6 2.1	3.8
41 - 45 YEARS	ESTIMATE	411	405	1,147	99	2	368	3,188	829	6,449
	% STD. ERROR	28.2	26.9	17.1	42.9	*	27.3	9.2	19.4	6.1
	ROW % COLUMN %	6.4 1.3	6.3 2.2	17.8 6.2	1.5 1.1	0.0 0.1	5.7 4.0	49.4 4.1	12.9 1.0	2.6
46 - 50 YEARS	ESTIMATE	4,139	2,670	2,587	280	113	629	3,251	364	14,033
	% STD. ERROR	8.9	11.8	11.5	36.4	57.2	21.5	9.2	23.8	4.0
	ROW % COLUMN %	29.5 13.1	19.0 14.3	18.4 14.0	2.0 3.2	0.8 3.5	4.5 6.9	23.2 4.2	2.6 0.5	5.7
51 - 55 YEARS	ESTIMATE	1,353	871	589	17	70	177	514	111	3,703
	% STD. ERROR	13.4	18.3	21.7	82.6	54.2	30.0	18.8	31.0	7.5
	ROW % COLUMN %	36.5 4.3	23.5 4.7	15.9 3.2	0.5 0.2	1.9 2.2	4.8 1.9	13.9 0.7	3.0 0.1	1.5
56 - 60 YEARS	ESTIMATE	56	49	63	1	0	4	29	2	205
	% STD. ERROR	70.6	88.3	86.0	*	0.0	*	42.4	*	39.5
	ROW % COLUMN %	27.3 0.2	23.9 0.3	30.7 0.3	0.5 0.0	0.0 0.0	2.0 0.0	14.1 0.0	1.0 0.0	0.1
OVER 60 YEARS	ESTIMATE	130	303	0	44	6	10	201	225	919
	% STD. ERROR	53.2	39.1	0.0	54.5	88.0	*	44.5	41.2	20.7
	ROW % COLUMN %	14.1 0.4	33.0 1.6	0.0 0.0	4.8 0.5	0.7 0.2	1.1 0.1	21.9 0.3	24.5 0.3	0.4

PAGE 3 OF 3

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

9-13

HIERARCHICAL CAPABILITY GROUPS KEY

- 1 - NO REGULATORY AVIONICS.
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9.3 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY TOTAL FLIGHT HOUR RANGES
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

		HIERARCHICAL CAPABILITY GROUPS								
		1	2	3	4	5	6	7	8	
TOTAL FLIGHT HOUR RANGES										TOTAL
1 - 50 HOURS	ESTIMATE	9,284	8,109	8,891	3,145	1,037	2,428	27,861	16,032	76,788 1.9 31.2
	% STD. ERROR	5.9	6.6	6.8	11.6	19.4	12.2	3.5	4.7	
	ROW %	12.1	10.6	11.6	4.1	1.4	3.2	36.3	20.9	
51 - 100 HOURS	COLUMN %	29.5	43.3	48.3	35.8	32.4	26.6	36.1	20.3	54,039 2.4 22.0
	ESTIMATE	2,109	3,054	2,697	1,193	508	1,638	21,487	21,354	
	% STD. ERROR	13.5	11.2	12.3	18.5	30.2	14.9	4.1	3.9	
101 - 150 HOURS	ROW %	3.9	5.7	5.0	2.2	0.9	3.0	39.8	39.5	23,237 3.9 9.4
	COLUMN %	6.7	16.3	14.6	13.6	15.9	17.9	27.8	27.0	
	ESTIMATE	861	795	515	386	405	805	7,278	12,192	
151 - 200 HOURS	% STD. ERROR	20.4	20.3	26.7	29.5	31.9	22.5	7.4	5.3	13,130 5.2 5.3
	ROW %	3.7	3.4	2.2	1.7	1.7	3.5	31.3	52.5	
	COLUMN %	2.7	4.2	2.8	4.4	12.7	8.8	9.4	15.4	
201 - 300 HOURS	ESTIMATE	712	215	139	231	257	466	3,710	7,401	5.3
	% STD. ERROR	20.8	36.1	30.6	32.3	42.4	25.3	10.7	6.8	
	ROW %	5.4	1.6	1.1	1.8	2.0	3.5	28.3	56.4	
301 - 400 HOURS	COLUMN %	2.3	1.1	0.8	2.6	8.0	5.1	4.8	9.4	13,702 5.0 5.6
	ESTIMATE	1,435	191	360	363	203	577	3,023	7,551	
	% STD. ERROR	15.1	40.3	33.2	29.7	41.5	23.5	12.0	6.6	
401 - 500 HOURS	ROW %	10.5	1.4	2.6	2.6	1.5	4.2	22.1	55.1	8,624 6.4 3.5
	COLUMN %	4.6	1.0	2.0	4.1	6.3	6.3	3.9	9.6	
	ESTIMATE	656	332	92	254	227	344	2,559	4,158	
501 - 600 HOURS	% STD. ERROR	22.9	32.8	70.0	32.6	46.0	26.7	13.2	8.8	4,750 8.7 1.9
	ROW %	7.6	3.8	1.1	2.9	2.6	4.0	29.7	48.2	
	COLUMN %	2.1	1.8	0.5	2.9	7.1	3.8	3.3	5.3	
601 - 700 HOURS	ESTIMATE	556	179	7	207	71	389	1,498	1,843	4,750 8.7 1.9
	% STD. ERROR	27.6	46.0	*	35.7	71.4	25.2	17.8	12.8	
	ROW %	11.7	3.8	0.1	4.4	1.5	8.2	31.5	38.8	
701 - 800 HOURS	COLUMN %	1.8	1.0	0.0	2.4	2.2	4.3	1.9	2.3	1.9
	ESTIMATE									
	% STD. ERROR									

9.3 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY TOTAL FLIGHT HOUR RANGES
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

HIERARCHICAL CAPABILITY GROUPS

TOTAL FLIGHT HOUR RANGES	1	2	3	4	5	6	7	8	TOTAL
501 - 700 HOURS	467	117	55	449	100	157	1,668	2,258	5,271
ESTIMATE	26.2	43.8	62.1	28.5	70.3	37.7	16.4	11.0	8.0
% STD. ERROR	8.9	2.2	1.0	8.5	1.9	3.0	31.6	42.8	2.1
ROW %	1.5	0.6	0.3	5.1	3.1	1.7	2.2	2.9	2.1
COLUMN %									
701 - 1000 HOURS	41	7	18	118	51	199	1,071	1,118	2,621
ESTIMATE	71.3	*	*	34.3	64.9	32.1	20.4	17.8	11.7
% STD. ERROR	1.6	0.3	0.7	4.5	1.9	7.6	40.9	42.7	1.1
ROW %	0.1	0.0	0.1	1.3	1.6	2.2	1.4	1.4	1.1
COLUMN %									
1001 - 1300 HOURS	0	5	0	4	0	53	342	194	598
ESTIMATE	0.0	*	0.0	*	0.0	73.2	36.0	35.4	24.5
% STD. ERROR	0.0	0.8	0.0	0.7	0.0	8.9	57.2	32.4	0.2
ROW %	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.2	0.2
COLUMN %									
1301 - 1600 HOURS	0	0	0	0	0	0	215	167	382
ESTIMATE	0.0	0.0	0.0	0.0	0.0	0.0	43.9	51.1	33.3
% STD. ERROR	0.0	0.0	0.0	0.0	0.0	0.0	56.3	43.7	0.2
ROW %	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.2
COLUMN %									
OVER 1600 HOURS	0	0	0	0	8	10	1	12	31
ESTIMATE	0.0	0.0	0.0	0.0	*	44.7	*	69.5	50.1
% STD. ERROR	0.0	0.0	0.0	0.0	25.8	32.3	3.2	38.7	0.0
ROW %	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0
COLUMN %									
INACTIVE	15,397	5,709	5,643	2,430	329	2,068	6,464	4,760	42,798
ESTIMATE	4.4	7.8	8.3	12.3	34.2	13.5	7.7	7.8	2.5
% STD. ERROR	36.0	13.3	13.2	5.7	0.8	4.8	15.1	11.1	17.4
ROW %	48.9	30.5	30.6	27.7	10.3	22.6	8.4	6.0	17.4
COLUMN %									
ALL AIRCRAFT	31,517	18,713	18,416	8,779	3,197	9,133	77,177	79,039	245,971
ESTIMATE	2.6	4.0	4.4	6.5	11.3	5.9	1.7	1.4	1.4
% STD. ERROR	12.8	7.6	7.5	3.6	1.3	3.7	31.4	32.1	0.2
ROW %									
COLUMN %									

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AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

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9.4 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY ACTUAL USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

ACTUAL USE	HIERARCHICAL CAPABILITY GROUPS							
	1	2	3	4	5	6	7	8
EXECUTIVE	ESTIMATE	36	20	33	836	88	206	537
	% STD. ERROR	75.1	*	77.7	16.3	53.9	36.9	23.4
	ROW %	0.4	0.2	0.3	8.3	0.9	2.1	5.3
BUSINESS	COLUMN %	0.1	0.1	0.2	9.5	2.8	2.3	0.7
	ESTIMATE	314	247	585	849	464	454	7,229
	% STD. ERROR	32.6	35.6	23.0	20.7	28.4	26.0	7.1
PERSONAL	ROW %	1.1	0.9	2.1	3.0	1.7	1.6	25.7
	COLUMN %	1.0	1.3	3.2	9.7	14.5	5.0	9.4
	ESTIMATE	6,366	6,766	7,487	2,898	1,332	2,869	40,199
INSTRUCTIONAL	% STD. ERROR	6.0	5.9	6.4	11.3	17.3	10.0	2.6
	ROW %	6.4	6.8	7.6	2.9	1.3	2.9	40.6
	COLUMN %	20.2	36.2	40.7	33.0	41.7	31.4	52.1
AERIAL APPLICATION	ESTIMATE	202	207	690	475	274	471	8,776
	% STD. ERROR	35.3	34.6	23.0	28.6	38.7	20.5	6.3
	ROW %	1.3	1.3	4.3	2.9	1.7	2.9	54.4
AERIAL OBSERVATION	COLUMN %	0.6	1.1	3.7	5.4	8.6	5.2	11.4
	ESTIMATE	3,938	486	152	49	44	117	389
	% STD. ERROR	5.4	23.0	45.1	89.1	47.3	38.4	25.2
TOTAL	ROW %	74.1	9.2	2.9	0.9	0.8	2.2	7.3
	COLUMN %	12.5	2.6	0.8	0.6	1.4	1.3	0.5
	ESTIMATE	205	182	232	102	67	345	2,085
	% STD. ERROR	41.9	39.8	36.4	51.9	56.2	21.5	13.0
	ROW %	4.5	4.0	5.1	2.2	1.5	7.5	45.5
	COLUMN %	0.7	1.0	1.3	1.2	2.1	3.8	2.7
								1.9

9.4 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY ACTUAL USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

ACTUAL USE	HIERARCHICAL CAPABILITY GROUPS								TOTAL
	1	2	3	4	5	6	7	8	
SIGHT SEEING	ESTIMATE	397	396	133	11	20	160	296	1,552
	% STD. ERROR	27.3	27.8	47.8	*	*	40.4	33.4	13.7
	ROW %	25.6	25.5	8.6	0.7	1.3	10.3	19.1	8.9
	COLUMN %	1.3	2.1	0.7	0.1	0.6	1.8	0.4	0.2
EXTERNAL LOAD	ESTIMATE	0	5	2	0	0	59	52	125
	% STD. ERROR	5.7	*	78.8	0.0	0.0	51.5	44.3	31.4
	ROW %	0.0	4.0	1.6	0.0	0.0	47.2	41.6	6.4
	COLUMN %	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.0
OTHER WORK USE	ESTIMATE	77	176	2	15	20	148	360	977
	% STD. ERROR	56.1	40.7	*	98.2	*	39.5	26.6	16.3
	ROW %	7.9	18.0	0.2	1.5	2.0	15.1	36.8	18.3
	COLUMN %	0.2	0.9	0.0	0.2	0.6	1.6	0.5	0.2
AIR TAXI	ESTIMATE	0	193	16	95	24	352	327	3,316
	% STD. ERROR	0.0	39.4	*	52.8	*	28.2	30.8	8.3
	ROW %	0.0	5.8	0.5	2.9	0.7	10.6	9.9	69.7
	COLUMN %	0.0	1.0	0.1	1.1	0.8	3.9	0.4	2.9
OTHER	ESTIMATE	241	577	176	253	169	190	909	4,018
	% STD. ERROR	37.3	22.1	36.2	27.5	45.7	39.3	18.5	8.4
	ROW %	6.0	14.4	4.4	6.3	4.2	4.7	22.6	37.5
	COLUMN %	0.8	3.1	1.0	2.9	5.3	2.1	1.2	1.9
INACTIVE	ESTIMATE	15,397	5,709	5,643	2,430	329	2,068	6,464	42,798
	% STD. ERROR	4.4	7.8	8.3	12.3	34.2	13.5	7.7	2.5
	ROW %	36.0	13.3	13.2	5.7	0.8	4.8	15.1	11.1
	COLUMN %	48.9	30.5	30.6	27.7	10.3	22.6	8.4	6.0
ALL AIRCRAFT	ESTIMATE	31,517	18,713	18,416	8,779	3,197	9,133	77,177	245,971
	% STD. ERROR	2.6	4.0	4.4	6.5	11.3	5.9	1.7	1.4
	ROW %	12.8	7.6	7.5	3.6	1.3	3.7	31.4	32.1

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9.5 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY REGION OF BASED AIRCRAFT
INCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

REGION OF BASED AIRCRAFT		HIERARCHICAL CAPABILITY GROUPS							
		1	2	3	4	5	6	7	8
ALASKAN	ESTIMATE	816	1,263	2,141	384	9	554	2,018	830
	% STD. ERROR	18.6	16.7	12.8	27.3	89.5	26.5	12.9	18.7
	ROW %	10.2	15.8	26.7	4.8	0.1	6.9	25.2	10.4
	COLUMN %	2.6	6.7	11.6	4.4	0.3	6.1	2.6	1.1
CENTRAL	ESTIMATE	2,550	1,032	1,795	762	194	436	4,660	4,133
	% STD. ERROR	12.2	19.5	15.0	22.0	47.0	28.4	9.8	9.1
	ROW %	16.4	6.6	11.5	4.9	1.2	2.8	29.9	26.6
	COLUMN %	8.1	5.5	9.7	8.7	6.1	4.8	6.0	5.2
EASTERN	ESTIMATE	3,228	1,937	2,097	751	601	758	9,904	10,120
	% STD. ERROR	10.4	13.6	14.1	21.5	27.3	21.7	6.4	5.9
	ROW %	11.0	6.6	7.1	2.6	2.0	2.6	33.7	34.4
	COLUMN %	10.2	10.4	11.4	8.6	18.8	8.3	12.8	12.0
GREAT LAKES	ESTIMATE	6,741	3,186	3,992	2,249	325	1,204	14,087	12,806
	% STD. ERROR	7.2	11.4	10.0	13.3	36.0	17.9	5.3	5.2
	ROW %	15.1	7.1	9.0	5.0	0.7	2.7	31.6	28.7
	COLUMN %	21.4	17.0	21.7	25.6	10.2	13.2	18.3	16.2
NEW ENGLAND	ESTIMATE	1,808	1,165	840	290	69	317	3,826	3,212
	% STD. ERROR	15.0	19.1	23.0	35.4	74.1	31.5	10.5	11.0
	ROW %	15.7	10.1	7.3	2.5	0.6	2.8	33.2	27.9
	COLUMN %	5.7	6.2	4.6	3.3	2.2	3.5	5.0	4.1
TOTAL									

9.5 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY REGION OF BASED AIRCRAFT
INCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

REGION OF BASED AIRCRAFT	HIERARCHICAL CAPABILITY GROUPS							
	1	2	3	4	5	6	7	8
NORTHWEST MOUNTAIN	ESTIMATE	3,751	2,855	2,288	1,150	270	981	9,153
	% STD. ERROR	10.2	11.2	14.0	18.9	39.1	17.8	6.6
	ROW %	13.8	10.5	8.4	4.2	1.0	3.6	7.3
SOUTHERN	COLUMN %	11.9	15.3	12.4	13.1	8.4	10.7	25.0
	ESTIMATE	4,483	2,620	1,990	1,334	694	1,706	11,818
	% STD. ERROR	9.1	12.2	15.1	17.5	24.0	14.5	5.8
SOUTHWESTERN	ROW %	11.3	6.6	5.0	3.3	1.7	4.3	29.7
	COLUMN %	14.2	14.0	10.8	15.2	21.7	18.7	15.3
	ESTIMATE	5,032	2,008	1,740	980	545	953	8,518
WESTERN-PACIFIC	% STD. ERROR	8.2	13.5	15.6	20.1	27.8	17.5	7.0
	ROW %	16.5	6.6	5.7	3.2	1.8	3.1	28.0
	COLUMN %	16.0	10.7	9.4	11.2	17.0	10.4	11.0
ALL AIRCRAFT	ESTIMATE	2,981	2,681	1,544	848	492	2,232	13,244
	% STD. ERROR	10.3	11.0	15.6	20.2	27.8	12.5	5.3
	ROW %	7.6	6.8	3.9	2.2	1.3	5.7	33.7
TOTAL	COLUMN %	9.5	14.3	8.4	9.7	15.4	24.4	17.2
	ESTIMATE	31,517	18,713	18,416	8,779	3,197	9,133	77,177
	% STD. ERROR	2.6	4.0	4.4	6.5	11.3	5.9	1.7
	ROW %	12.8	7.6	7.5	3.6	1.3	3.7	31.4
	COLUMN %							32.1

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9.6 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY NONHIERARCHICAL CAPABILITY GROUPS
INCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

NONHIERARCHICAL		HIERARCHICAL CAPABILITY GROUPS							
		1	2	3	4	5	6	7	8
LOCALIZER	ESTIMATE	174	11	679	493	216	244	11,100	1,284
	% STD. ERROR	48.4	*	24.6	28.0	48.9	40.3	5.8	17.6
	ROW %	1.2	0.1	4.8	3.5	1.5	1.7	78.2	9.0
LOCALIZER, MARKER BEACON	COLUMN %	0.6	0.1	3.7	5.6	6.8	2.7	14.4	1.6
	ESTIMATE	4	82	111	578	23	99	2,835	657
	% STD. ERROR	99.5	73.9	58.2	27.9	63.4	62.7	12.3	23.1
LOCALIZER, MARKER BEACON, GLIDE SLOPE	ROW %	0.1	1.9	2.5	13.2	0.5	2.3	64.6	15.0
	COLUMN %	0.0	0.4	0.6	6.6	0.7	1.1	3.7	0.8
	ESTIMATE	146	91	664	2,485	1,286	560	29,538	59,649
LOCALIZER, MARKER BEACON, GLIDE SLOPE, RADAR ALTIMETER	% STD. ERROR	48.1	61.6	25.0	12.4	18.5	26.6	3.4	1.8
	ROW %	0.2	0.1	0.7	2.6	1.4	0.6	31.3	63.2
	COLUMN %	0.5	0.5	3.6	28.3	40.2	6.1	38.3	75.5
LONG RANGE NAV (INCLUDES OMEGA, LORAN-C)	ESTIMATE	37	0	32	1,164	123	67	378	14,665
	% STD. ERROR	82.5	0.0	53.0	13.5	42.6	53.6	31.2	3.2
	ROW %	0.2	0.0	0.2	7.1	0.7	0.4	2.3	89.1
RADAR ALTIMETER	COLUMN %	0.1	0.0	0.2	13.3	3.8	0.7	0.5	18.6
	ESTIMATE	395	1,840	3,055	2,713	1,833	4,558	36,142	46,995
	% STD. ERROR	30.8	15.6	11.9	11.0	14.9	8.8	3.0	2.2
RADAR ALTIMETER	ROW %	0.4	1.9	3.1	2.8	1.9	4.7	37.1	48.2
	COLUMN %	1.3	9.8	16.6	30.9	57.3	49.9	46.8	59.5
	ESTIMATE	66	62	110	1,391	230	233	967	14,970
RADAR ALTIMETER	% STD. ERROR	64.7	56.2	50.7	13.2	37.7	39.1	18.9	3.1
	ROW %	0.4	0.3	0.6	7.7	1.3	1.3	5.4	83.0
	COLUMN %	0.2	0.3	0.6	15.8	7.2	2.6	1.3	18.9
TOTAL									

9.6 1993 GENERAL AVIATION AIRCRAFT HIERARCHICAL CAPABILITY GROUPS
BY NONHIERARCHICAL CAPABILITY GROUPS
INCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

NONHIERARCHICAL		HIERARCHICAL CAPABILITY GROUPS							
		1	2	3	4	5	6	7	8
NO REGULATORY AVIONICS	ESTIMATE	30,824	16,644	14,507	3,204	891	4,104	19,783	1,474
	% STD. ERROR	2.6	4.2	5.0	11.3	20.9	8.8	4.3	16.0
	ROW %	33.7	18.2	15.9	3.5	1.0	4.5	21.6	1.6
ALL AIRCRAFT	COLUMN %	97.8	88.9	78.8	36.5	27.9	44.9	25.6	1.9
	ESTIMATE	31,517	18,713	18,416	8,779	3,197	9,133	77,177	79,039
	% STD. ERROR	2.6	4.0	4.4	6.5	11.3	5.9	1.7	1.4
	ROW %	12.8	7.6	7.5	3.6	1.3	3.7	31.4	32.1
	TOTAL								

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

HIERARCHICAL CAPABILITY GROUPS KEY

- 1 - NO REGULATORY AVIONICS.
- 2 - TWO-WAY COMMUNICATIONS.
- 3 - TWO-WAY COMMUNICATIONS, TWO SYSTEMS: AIR TAXIS; VOR OR ADF OR RNAV.
- 4 - TWO-WAY COMMUNICATIONS, TWO SYSTEMS: AIR TAXIS; MODE_S CAPABILITY; VOR OR RNAV.
- 5 - TWO-WAY COMMUNICATIONS, MODE_S CAPABILITY, ALTITUDE ENCODING EQUIPMENT.
- 6 - TWO-WAY COMMUNICATIONS, MODE_S CAPABILITY, ALTITUDE ENCODING EQUIPMENT.
- 7 - TWO-WAY COMMUNICATIONS, TWO SYSTEMS: AIR TAXIS; MODE_S CAPABILITY, ALTITUDE ENCODING EQUIPMENT, VOR.
- 8 - TWO-WAY COMMUNICATIONS, TWO SYSTEMS: AIR TAXIS; MODE_S CAPABILITY, ALTITUDE ENCODING EQUIPMENT, VOR AND DME OR RNAV.

9.7 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY AIRCRAFT TYPE
INCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 4

AIRCRAFT TYPE	NONHIERARCHICAL CAPABILITY GROUPS					NO GROUP	TOTAL
	1	2	3	4	5		
FIXED - WING							
FIXED WING - PISTON							
1 ENG: 1-3 SEATS							
ESTIMATE	6,107	771	5,335	12,995	220	47,982	68,813
% STD. ERROR	7.9	22.6	8.1	4.9	45.9	1.5	**
ROW %	8.9	1.1	7.8	18.9	0.3	69.7	0.0
COLUMN %	43.0	17.6	5.7	13.3	1.2	52.5	28.0
1 ENG: 4+ SEATS							
ESTIMATE	5,953	3,156	70,261	56,394	3,125	17,226	109,606
% STD. ERROR	8.0	11.5	1.3	1.9	10.8	4.0	**
ROW %	5.4	2.9	64.1	51.5	2.9	15.7	0.0
COLUMN %	41.9	71.9	74.4	57.8	17.3	18.8	44.6
2 ENG: 1-6 SEATS							
ESTIMATE	368	131	11,292	8,995	2,635	500	15,187
% STD. ERROR	30.7	48.2	2.6	4.0	9.5	22.5	**
ROW %	2.4	0.9	74.4	59.2	17.4	3.3	0.0
COLUMN %	2.6	3.0	12.0	9.2	14.6	0.5	6.2
2 ENG: 7+ SEATS							
ESTIMATE	149	23	4,356	3,608	1,696	362	6,581
% STD. ERROR	39.8	*	4.1	6.0	9.8	21.6	**
ROW %	2.3	0.3	66.2	54.8	25.8	5.5	0.0
COLUMN %	1.0	0.5	4.6	3.7	9.4	0.4	2.7
PISTON: OTHER							
ESTIMATE	7	0	48	27	7	21	95
% STD. ERROR	*	0.0	30.4	48.9	*	58.1	**
ROW %	7.4	0.0	50.5	28.4	7.4	22.1	0.0
COLUMN %	0.0	0.0	0.1	0.0	0.0	0.0	0.0
FIXED WING - TURBOPROP							
1 ENGINE: TOTAL							
ESTIMATE	3	0	310	138	133	292	807
% STD. ERROR	*	0.0	19.8	24.1	45.2	7.6	**
ROW %	0.4	0.0	38.4	17.1	16.5	36.2	0.0
COLUMN %	0.0	0.0	0.3	0.1	0.7	0.3	0.3

9.7 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY AIRCRAFT TYPE
INCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 4

AIRCRAFT TYPE	NONHIERARCHICAL CAPABILITY GROUPS					NO GROUP	TOTAL
	1	2	3	4	5		
2 ENG: 1-12 SEATS	17	16	688	2,830	3,392	0	4,086
	% STD. ERROR	98.2	15.2	5.2	3.1	0.0	**
	ROW %	0.4	16.8	69.3	83.0	0.0	0.0
2 ENG: 13+ SEATS	0.1	0.4	0.7	2.9	18.8	0.0	1.7
	COLUMN %						
	ESTIMATE	0	0	214	406	634	868
TURBOPROP: OTHER	% STD. ERROR	0.0	0.0	18.1	8.2	6.1	**
	ROW %	0.0	0.0	24.7	46.8	73.0	0.0
	COLUMN %	0.0	0.0	0.2	0.4	3.5	0.4
TURBOJET: OTHER	0	0	50	21	21	0	71
	% STD. ERROR	0.0	0.0	23.8	56.7	0.0	**
	ROW %	0.0	0.0	70.4	29.6	0.0	0.0
FIXED WING - TURBOJET	0.0	0.0	0.1	0.0	0.1	0.0	0.0
	COLUMN %						
	ESTIMATE	4	46	146	3,593	4,094	4,272
2 ENGINE: TOTAL	% STD. ERROR	*	82.6	25.3	3.1	63.3	**
	ROW %	0.1	1.1	3.4	84.1	95.8	0.0
	COLUMN %	0.0	1.0	0.2	3.7	22.7	1.7
TURBOJET: OTHER	32	0	47	235	280	76	434
	% STD. ERROR	23.1	0.0	24.4	8.5	12.8	**
	ROW %	7.4	0.0	10.8	54.1	17.5	0.0
ROTORCRAFT	0.2	0.0	0.0	0.2	1.6	0.1	0.2
	COLUMN %						
	ESTIMATE	115	8	39	852	3,310	4,274
PISTON: TOTAL	% STD. ERROR	28.1	83.2	51.8	10.7	2.8	**
	ROW %	2.7	0.2	0.9	19.9	77.4	0.0
	COLUMN %	0.8	0.2	0.0	0.9	3.6	1.7

9.7 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY AIRCRAFT TYPE
INCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 4

AIRCRAFT TYPE	NONHIERARCHICAL CAPABILITY GROUPS							NO GROUP	TOTAL
	1	2	3	4	5				
1 ENG: TURBINE	412 22.5 13.6 2.9	76 60.8 2.5 1.7	286 28.8 9.4 0.3	1,733 7.2 57.0 1.8	439 21.0 14.4 2.4	981 11.5 32.3 1.1	3,040 ** 0.0 1.2		
ESTIMATE									
% STD. ERROR									
ROW %									
COLUMN %									
MULTI-ENG: TURBINE	22 69.1 2.4 0.2	1 * 0.1 0.0	21 77.0 2.3 0.0	724 4.9 79.9 0.7	722 4.9 79.7 4.0	37 31.9 4.1 0.0	906 ** 0.0 0.4		
ESTIMATE									
% STD. ERROR									
ROW %									
COLUMN %									
OTHER AIRCRAFT	26 93.4 0.9 0.2	0 0.0 0.0 0.0	23 * 0.8 0.0	18 * 0.7 0.0	45 71.3 1.6 0.2	2,659 1.8 96.3 2.9	2,760 ** 0.0 1.1		
ESTIMATE									
% STD. ERROR									
ROW %									
COLUMN %									
LIGHTER-THAN-AIR:	0 0.0 0.0 0.0	0 0.0 0.0 0.0	59 85.4 1.1 0.1	162 50.9 2.9 0.2	68 79.3 1.2 0.4	5,269 1.8 95.9 5.8	5,497 ** 0.0 2.2		
ESTIMATE									
% STD. ERROR									
ROW %									
COLUMN %									
EXPERIMENTAL	597 31.4 4.7 4.2	149 64.0 1.2 3.4	385 39.4 3.0 0.4	3,466 11.4 27.3 3.6	37 * 0.3 0.2	8,760 4.7 69.1 9.6	12,683 ** 0.0 5.2		
ESTIMATE									
% STD. ERROR									
ROW %									
COLUMN %									
HOME BUILT:	82 57.0 3.1 0.6	9 * 0.3 0.2	125 45.8 4.8 0.1	223 33.7 8.5 0.2	8 * 0.3 0.0	2,258 4.1 86.3 2.5	2,617 ** 0.0 1.1		
ESTIMATE									
% STD. ERROR									
ROW %									
COLUMN %									
EXHIBITION:									

9.7 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY AIRCRAFT TYPE
INCLUDES COMMUTER AIRCRAFT

PAGE 4 OF 4

AIRCRAFT TYPE	NONHIERARCHICAL CAPABILITY GROUPS						NO GROUP	TOTAL
	1	2	3	4	5			
OTHER EXPERIMENTAL	ESTIMATE	307	2	733	1,111	469	1,663	3,374
	% STD. ERROR	27.6	*	16.6	12.5	21.8	8.9	**
	ROW %	9.1	0.1	21.7	32.9	13.9	49.3	0.0
ALL AIRCRAFT	COLUMN %	2.2	0.0	0.8	1.1	2.6	1.8	1.4
	ESTIMATE	14,201	4,389	94,419	97,530	18,030	91,432	245,971
	% STD. ERROR	5.1	9.6	1.2	1.4	2.8	1.2	*
	ROW %	5.8	1.8	38.4	39.7	7.3	37.2	*

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.

** IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF LESS THAN 0.1 PERCENT (%).
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

NONHIERARCHICAL CAPABILITY GROUPS KEY

- 1 - LOCALIZER (LOC)
 - 2 - LOCALIZER, MARKER BEACON (MB)
 - 3 - LOCALIZER, MARKER BEACON, GLIDE SLOPE (GS)
 - 4 - LONG RANGE NAVIGATION (LRNAV) - INCLUDES (LORAN ,VFR ONLY; ENROUTE IFR; TERMINAL IFR & OMEGA)
 - 5 - RADAR ALTIMETER (RA)
- NO GROUP - NO REGULATORY AVIONICS

9.8 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 3

AGE OF AIRCRAFT	NONHIERARCHICAL CAPABILITY GROUPS							
	1	2	3	4	5	NO GROUP	TOTAL	
1 - 5 YEARS	ESTIMATE	840	86	2,361	5,038	2,431	6,258	13,666
	% STD. ERROR	21.7	43.4	11.1	7.9	9.1	7.0	4.4
	ROW %	6.1	0.6	17.3	36.9	17.8	45.8	0.0
	COLUMN %	5.9	2.0	2.5	5.2	13.5	6.8	5.6
6 - 10 YEARS	ESTIMATE	287	49	3,102	5,420	2,670	3,316	10,395
	% STD. ERROR	39.7	81.9	10.5	7.3	8.4	11.0	5.6
	ROW %	2.8	0.5	29.8	52.1	25.7	31.9	0.0
	COLUMN %	2.0	1.1	3.3	5.6	14.8	3.6	4.2
11 - 15 YEARS	ESTIMATE	2,053	436	20,180	17,922	5,480	6,190	36,243
	% STD. ERROR	13.5	33.5	4.1	4.2	6.4	7.4	2.8
	ROW %	5.7	1.2	55.7	49.4	15.1	17.1	0.0
	COLUMN %	14.5	9.9	21.4	18.4	30.4	6.8	14.7
16 - 20 YEARS	ESTIMATE	2,642	743	22,497	20,251	3,465	9,038	41,274
	% STD. ERROR	12.7	23.5	3.9	4.1	8.9	6.5	2.7
	ROW %	6.4	1.8	54.5	49.1	8.4	21.9	0.0
	COLUMN %	18.6	16.9	23.8	20.8	19.2	9.9	16.8
21 - 25 YEARS	ESTIMATE	861	479	12,793	11,688	1,482	6,201	24,586
	% STD. ERROR	21.4	28.8	5.4	5.6	13.9	8.2	3.8
	ROW %	3.5	1.9	52.0	47.5	6.0	25.2	0.0
	COLUMN %	6.1	10.9	13.5	12.0	8.2	6.8	10.0
26 - 30 YEARS	ESTIMATE	2,682	1,058	14,397	14,638	1,026	6,827	29,588
	% STD. ERROR	12.9	20.9	4.9	5.1	17.0	7.7	3.4
	ROW %	9.1	3.6	48.7	49.5	3.5	23.1	0.0
	COLUMN %	18.9	24.1	15.2	15.0	5.7	7.5	12.0
31 - 35 YEARS	ESTIMATE	1,088	228	7,294	7,313	411	3,926	15,260
	% STD. ERROR	19.5	43.4	6.8	7.1	27.4	9.7	4.6
	ROW %	7.1	1.5	47.8	47.9	2.7	25.7	0.0
	COLUMN %	7.7	5.2	7.7	7.5	2.3	4.3	6.2

9.8 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 3

AGE OF AIRCRAFT	NONHIERARCHICAL CAPABILITY GROUPS						
	1	2	3	4	5	NO GROUP	TOTAL
36 - 40 YEARS	ESTIMATE	751	273	3,493	4,151	82	2,977
	% STD. ERROR	23.7	36.0	10.1	9.3	53.9	11.5
	ROW %	7.9	2.9	36.9	43.8	0.9	31.4
41 - 45 YEARS	COLUMN %	5.3	6.2	3.7	4.3	0.5	3.3
	ESTIMATE	544	249	1,597	2,055	58	3,242
	% STD. ERROR	22.4	40.0	13.7	11.8	68.5	9.5
46 - 50 YEARS	ROW %	8.4	3.9	24.8	31.9	0.9	50.3
	COLUMN %	3.8	5.7	1.7	2.1	0.3	3.5
	ESTIMATE	674	84	1,089	2,370	94	10,597
51 - 55 YEARS	% STD. ERROR	19.5	54.6	16.6	11.1	51.8	4.9
	ROW %	4.8	0.6	7.8	16.9	0.7	75.5
	COLUMN %	4.7	1.9	1.2	2.4	0.5	11.6
56 - 60 YEARS	ESTIMATE	125	1	132	439	81	3,076
	% STD. ERROR	33.8	*	27.5	19.8	53.9	8.5
	ROW %	3.4	0.0	3.6	11.9	2.2	83.1
OVER 60 YEARS	COLUMN %	0.9	0.0	0.1	0.5	0.4	3.4
	ESTIMATE	13	0	8	19	0	172
	% STD. ERROR	44.0	0.0	*	70.9	0.0	46.3
	ROW %	6.3	0.0	3.9	9.3	0.0	83.9
	COLUMN %	0.1	0.0	0.0	0.0	0.0	0.2
	ESTIMATE	32	81	228	284	25	447
	% STD. ERROR	63.7	72.1	41.1	34.2	82.3	31.6
	ROW %	3.5	8.8	24.8	30.9	2.7	48.6
	COLUMN %	0.2	1.8	0.2	0.3	0.1	0.5
	ESTIMATE	919	205	39.5	0.0	0.1	0.4
	% STD. ERROR	20.7	7.5	0.0	0.0	0.0	0.0
	ROW %	0.0	0.0	0.0	0.0	0.0	0.0
	COLUMN %	0.0	0.0	0.0	0.0	0.0	0.0

9.8 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY AGE OF AIRCRAFT
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 3

AGE OF AIRCRAFT	NONHIERARCHICAL CAPABILITY GROUPS						
	1	2	3	4	5	NO GROUP	TOTAL
YEAR MANUFACTURED UNKNOWN	ESTIMATE	1,609	622	5,248	5,942	724	29,165
	% STD. ERROR	16.7	25.5	8.0	8.0	18.1	3.1
	ROW %	4.0	1.5	13.1	14.8	1.8	72.6
	COLUMN %	11.3	14.2	5.6	6.1	4.0	31.9
ALL AIRCRAFT	ESTIMATE	14,201	4,389	94,419	97,530	18,030	91,432
	% STD. ERROR	5.1	9.6	1.2	1.4	2.8	1.2
	ROW %	5.8	1.8	38.4	39.7	7.3	37.2
							245,971

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

NONHIERARCHICAL CAPABILITY GROUPS KEY

- 1 - LOCALIZER (LOC)
 - 2 - LOCALIZER, MARKER BEACON (MB)
 - 3 - LOCALIZER, MARKER BEACON, GLIDE SLOPE (GS)
 - 4 - LONG RANGE NAVIGATION (LRNAV) - INCLUDES (LORAN ,VFR ONLY; ENROUTE IFR; TERMINAL IFR & OMEGA)
 - 5 - RADAR ALTIMETER (RA)
- NO GROUP - NO REGULATORY AVIONICS

9.9 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY TOTAL FLIGHT HOUR RANGES
EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 3

TOTAL FLIGHT HOUR RANGES		NONHIERARCHICAL CAPABILITY GROUPS					NO GROUP	TOTAL
		1	2	3	4	5		
1 - 50 HOURS	ESTIMATE	4,824	1,733	22,885	27,221	1,989	34,715	76,788
	% STD. ERROR	9.0	15.8	3.9	3.6	12.7	2.9	1.9
	ROW %	6.3	2.3	29.8	35.4	2.6	45.2	0.0
	COLUMN %	34.0	39.5	24.2	27.9	11.0	38.0	31.2
51 - 100 HOURS	ESTIMATE	3,684	986	28,284	26,999	2,830	12,538	54,039
	% STD. ERROR	10.4	20.2	3.4	3.6	11.1	5.5	2.4
	ROW %	6.8	1.8	52.3	50.0	5.2	23.2	0.0
	COLUMN %	25.9	22.5	30.0	27.7	15.7	13.7	22.0
101 - 150 HOURS	ESTIMATE	1,164	245	14,200	13,580	2,321	3,669	23,237
	% STD. ERROR	19.1	38.4	5.0	5.1	10.8	10.2	3.9
	ROW %	5.0	1.1	61.1	58.4	10.0	15.8	0.0
	COLUMN %	8.2	5.6	15.0	13.9	12.9	4.0	9.4
151 - 200 HOURS	ESTIMATE	540	209	7,712	6,861	1,882	2,107	13,130
	% STD. ERROR	26.8	45.5	7.1	7.3	12.1	12.9	5.2
	ROW %	4.1	1.6	58.7	52.3	14.3	16.0	0.0
	COLUMN %	3.8	4.8	8.2	7.0	10.4	2.3	5.3
201 - 300 HOURS	ESTIMATE	495	289	6,849	6,893	2,647	2,933	13,702
	% STD. ERROR	30.5	37.5	7.6	6.9	9.0	10.9	5.0
	ROW %	3.6	2.1	50.0	50.3	19.3	21.4	0.0
	COLUMN %	3.5	6.6	7.3	7.1	14.7	3.2	5.6
301 - 400 HOURS	ESTIMATE	538	70	3,362	3,522	2,100	2,157	8,624
	% STD. ERROR	28.7	83.3	11.2	9.3	10.1	13.6	6.4
	ROW %	6.2	0.8	39.0	40.8	24.4	25.0	0.0
	COLUMN %	3.8	1.6	3.6	3.6	11.6	2.4	3.5

9.9 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY TOTAL FLIGHT HOUR RANGES
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 3

TOTAL FLIGHT HOUR RANGES	NONHIERARCHICAL CAPABILITY GROUPS						
	1	2	3	4	5	NO GROUP	TOTAL
401 - 500 HOURS	308 ESTIMATE 38.2 % STD. ERROR ROW % 6.5 COLUMN % 2.2	108 58.3 2.3 2.5	1,694 15.3 35.7 1.8	1,733 12.6 36.5 1.8	969 15.1 20.4 5.4	1,425 17.2 30.0 1.6	4,750 8.7 0.0 1.9
501 - 700 HOURS	562 ESTIMATE 27.9 % STD. ERROR ROW % 10.7 COLUMN % 4.0	5 * 0.1 0.1	1,703 15.1 32.3 1.8	2,223 11.2 42.2 2.3	1,458 11.3 27.7 8.1	1,321 17.0 25.1 1.4	5,271 8.0 0.0 2.1
701 - 1000 HOURS	245 ESTIMATE 43.5 % STD. ERROR ROW % 9.3 COLUMN % 1.7	50 * 1.9 1.1	985 20.4 37.6 1.0	1,075 16.0 41.0 1.1	365 19.8 13.9 2.0	734 23.8 28.0 0.8	2,621 11.7 0.0 1.1
1001 - 1300 HOURS	94 ESTIMATE 69.1 % STD. ERROR ROW % 15.7 COLUMN % 0.7	0 0.0 0.0 0.0	223 39.5 37.3 0.2	155 38.0 25.9 0.2	87 53.8 14.5 0.5	145 54.8 24.2 0.2	598 24.5 0.0 0.2
1301 - 1600 HOURS	35 ESTIMATE 94.4 % STD. ERROR ROW % 9.2 COLUMN % 0.2	0 0.0 0.0 0.0	298 40.3 78.0 0.3	115 63.3 30.1 0.1	7 * 1.8 0.0	42 52.5 11.0 0.0	382 33.3 0.0 0.2
OVER 1600 HOURS	0 ESTIMATE 0.0 % STD. ERROR ROW % 0.0 COLUMN % 0.0	0 0.0 0.0 0.0	1 * 3.2 0.0	20 45.9 64.5 0.0	10 62.9 32.3 0.1	10 * 32.3 0.0	31 50.1 0.0 0.0

9.9 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY TOTAL FLIGHT HOUR RANGES
EXCLUDES COMMUTER AIRCRAFT

PAGE 3 OF 3

TOTAL FLIGHT HOUR RANGES		NONHIERARCHICAL CAPABILITY GROUPS					NO	
		1	2	3	4	5	GROUP	TOTAL
INACTIVE	ESTIMATE	1,712	693	6,222	7,134	1,365	29,635	42,798
	% STD. ERROR	16.2	24.2	7.3	7.2	12.5	3.1	2.5
	ROW %	4.0	1.6	14.5	16.7	3.2	69.2	0.0
	COLUMN %	12.1	15.8	6.6	7.3	7.6	32.4	17.4
ALL AIRCRAFT	ESTIMATE	14,201	4,389	94,419	97,530	18,030	91,432	245,971
	% STD. ERROR	5.1	9.6	1.2	1.4	2.8	1.2	
	ROW %	5.8	1.8	38.4	39.7	7.3	37.2	

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

NONHIERARCHICAL CAPABILITY GROUPS KEY

- 1 - LOCALIZER (LOC)
 - 2 - LOCALIZER, MARKER BEACON (MB)
 - 3 - LOCALIZER, MARKER BEACON, GLIDE SLOPE (GS)
 - 4 - LONG RANGE NAVIGATION (LRNAV) - INCLUDES (LORAN ,VFR ONLY; ENROUTE IFR; TERMINAL IFR & OMEGA)
 - 5 - RADAR ALTIMETER (RA)
- NO GROUP - NO REGULATORY AVIONICS

9.10 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
 BY ACTUAL USE
 EXCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

ACTUAL USE	NONHIERARCHICAL CAPABILITY GROUPS						NO GROUP	TOTAL
	1	2	3	4	5			
EXECUTIVE	ESTIMATE	166	112	2,105	7,260	7,245	292	10,048
	% STD. ERROR	33.7	51.2	11.8	4.4	3.5	33.6	3.6
	ROW %	1.7	1.1	20.9	72.3	72.1	2.9	0.0
BUSINESS	COLUMN %	1.2	2.6	2.2	7.4	40.2	0.3	4.1
	ESTIMATE	1,107	454	19,774	16,629	2,694	2,360	28,099
	% STD. ERROR	18.3	28.2	3.9	4.3	10.2	11.9	3.2
PERSONAL	ROW %	3.9	1.6	70.4	59.2	9.6	8.4	0.0
	COLUMN %	7.8	10.3	20.9	17.1	14.9	2.6	11.4
PERSONAL	ESTIMATE	6,511	2,162	44,245	44,794	3,090	30,749	99,061
	% STD. ERROR	7.3	13.3	2.4	2.4	10.4	2.7	1.3
	ROW %	6.6	2.2	44.7	45.2	3.1	31.0	0.0
INSTRUCTIONAL	COLUMN %	45.8	49.3	46.9	45.9	17.1	33.6	40.3
	ESTIMATE	1,860	226	8,214	4,439	350	4,701	16,118
	% STD. ERROR	14.2	42.3	6.7	9.1	30.8	8.5	4.5
AERIAL APPLICATION	ROW %	11.5	1.4	51.0	27.5	2.2	29.2	0.0
	COLUMN %	13.1	5.1	8.7	4.6	1.9	5.1	6.6
	ESTIMATE	121	21	191	499	66	4,648	5,311
AERIAL OBSERVATION	% STD. ERROR	38.7	*	36.5	21.7	58.2	4.4	4.2
	ROW %	2.3	0.4	3.6	9.4	1.2	87.5	0.0
	COLUMN %	0.9	0.5	0.2	0.5	0.4	5.1	2.2
AERIAL OBSERVATION	ESTIMATE	402	88	1,897	2,278	259	1,370	4,585
	% STD. ERROR	26.8	67.2	14.1	12.1	27.7	15.2	8.4
	ROW %	8.8	1.9	41.4	49.7	5.6	29.9	0.0
AERIAL OBSERVATION	COLUMN %	2.8	2.0	2.0	2.3	1.4	1.5	1.9

9.10 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS

BY ACTUAL USE
EXCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

ACTUAL USE	NONHIERARCHICAL CAPABILITY GROUPS						NO GROUP	TOTAL
	1	2	3	4	5			
SIGHT SEEING	ESTIMATE	40	43	315	271	2	1,063	1,552
	% STD. ERROR	90.9	94.7	35.3	34.6	*	15.8	13.7
	ROW %	2.6	2.8	20.3	17.5	0.1	68.5	0.0
	COLUMN %	0.3	1.0	0.3	0.3	0.0	1.2	0.6
EXTERNAL LOAD	ESTIMATE	6	0	3	103	37	16	125
	% STD. ERROR	*	0.6	*	35.0	50.4	93.3	31.4
	ROW %	4.8	0.0	2.4	82.4	29.6	12.8	0.0
	COLUMN %	0.0	0.0	0.0	0.1	0.2	0.0	0.1
OTHER WORK USE	ESTIMATE	45	1	172	257	89	540	977
	% STD. ERROR	68.5	*	43.9	30.5	57.6	21.7	16.3
	ROW %	4.6	0.1	17.6	26.3	9.1	55.3	0.0
	COLUMN %	0.3	0.0	0.2	0.3	0.5	0.6	0.4
AIR TAXI	ESTIMATE	91	159	2,026	1,820	808	108	3,316
	% STD. ERROR	52.4	48.8	11.5	11.3	14.2	44.0	8.3
	ROW %	2.7	4.8	61.1	54.9	24.4	3.3	0.0
	COLUMN %	0.6	3.6	2.1	1.9	4.5	0.1	1.3
OTHER	ESTIMATE	153	8	1,635	1,905	553	1,289	4,018
	% STD. ERROR	38.2	*	14.5	12.4	16.4	14.9	8.4
	ROW %	3.8	0.2	40.7	47.4	13.8	32.1	0.0
	COLUMN %	1.1	0.2	1.7	2.0	3.1	1.4	1.6
INACTIVE	ESTIMATE	1,712	693	6,222	7,134	1,365	29,635	42,798
	% STD. ERROR	16.2	24.2	7.3	7.2	12.5	3.1	2.5
	ROW %	4.0	1.6	14.5	16.7	3.2	69.2	0.0
	COLUMN %	12.1	15.8	6.6	7.3	7.6	32.4	17.4
ALL AIRCRAFT	ESTIMATE	14,201	4,389	94,419	97,530	18,030	91,432	245,971
	% STD. ERROR	5.1	9.6	1.2	1.4	2.8	1.2	
	ROW %	5.8	1.8	38.4	39.7	7.3	37.2	

NOTE: ROW AND COLUMN SUMMATIONS MAY DIFFER FROM PRINTED TOTALS DUE TO ESTIMATION PROCEDURES.
AN ASTERISK (*) IN A PERCENT STANDARD ERROR COLUMN INDICATES A PERCENT STANDARD ERROR OF 100.0 OR GREATER.

NONHIERARCHICAL CAPABILITY GROUPS KEY

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- NO GROUP - NO REGULATORY AVIONICS

9.11 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY REGION OF BASED AIRCRAFT
INCLUDES COMMUTER AIRCRAFT

PAGE 1 OF 2

REGION OF BASED AIRCRAFT	NONHIERARCHICAL CAPABILITY GROUPS						NO GROUP	TOTAL
	1	2	3	4	5			
ALASKAN	ESTIMATE	408	181	1,154	2,365	417	4,638	8,015
	% STD. ERROR	28.4	46.0	16.0	11.3	27.2	8.3	6.0
	ROW %	5.1	2.3	14.4	29.5	5.2	57.9	0.0
	COLUMN %	2.9	4.1	1.2	2.4	2.3	5.1	3.3
CENTRAL	ESTIMATE	993	330	4,908	5,362	1,577	6,445	15,563
	% STD. ERROR	20.9	37.3	9.0	8.3	13.8	7.8	4.9
	ROW %	6.4	2.1	31.5	34.5	10.1	41.4	0.0
	COLUMN %	7.0	7.5	5.2	5.5	8.7	7.0	6.3
EASTERN	ESTIMATE	1,662	471	11,868	12,483	2,218	10,169	29,398
	% STD. ERROR	16.0	31.5	5.7	5.4	10.7	6.0	3.5
	ROW %	5.7	1.6	40.4	42.5	7.5	34.6	0.0
	COLUMN %	11.7	10.7	12.6	12.8	12.3	11.1	12.0
GREAT LAKES	ESTIMATE	2,598	966	16,399	18,142	2,871	17,123	44,589
	% STD. ERROR	12.9	20.7	4.7	4.5	9.0	4.5	2.7
	ROW %	5.8	2.2	36.8	40.7	6.4	38.4	0.0
	COLUMN %	18.3	22.0	17.4	18.6	15.9	18.7	18.1
NEW ENGLAND	ESTIMATE	669	183	4,268	5,021	641	4,507	11,527
	% STD. ERROR	25.6	49.6	9.8	8.9	22.4	9.5	5.9
	ROW %	5.8	1.6	37.0	43.6	5.6	39.1	0.0
	COLUMN %	4.7	4.2	4.5	5.1	3.6	4.9	4.7

9.11 1993 GENERAL AVIATION AIRCRAFT NONHIERARCHICAL CAPABILITY GROUPS
BY REGION OF BASED AIRCRAFT
INCLUDES COMMUTER AIRCRAFT

PAGE 2 OF 2

REGION OF BASED AIRCRAFT	NONHIERARCHICAL CAPABILITY GROUPS						NO GROUP	TOTAL
	1	2	3	4	5			
NORTHWEST MOUNTAIN	ESTIMATE	1,645	756	8,449	9,181	1,519	11,897	27,256
	% STD. ERROR	15.2	23.3	6.8	6.4	12.7	5.6	3.6
	ROW %	6.0	2.8	31.0	33.7	5.6	43.6	0.0
	COLUMN %	11.6	17.2	8.9	9.4	8.4	13.0	11.1
SOUTHERN	ESTIMATE	2,362	429	17,945	18,686	3,625	11,860	39,822
	% STD. ERROR	13.1	31.6	4.5	4.4	8.3	5.6	2.9
	ROW %	5.9	1.1	45.1	46.9	9.1	29.8	0.0
	COLUMN %	16.6	9.8	19.0	19.2	20.1	13.0	16.2
SOUTHWESTERN	ESTIMATE	1,715	567	11,559	11,556	2,572	11,623	30,450
	% STD. ERROR	15.7	27.0	5.7	5.6	10.1	5.5	3.4
	ROW %	5.6	1.9	38.0	38.0	8.4	38.2	0.0
	COLUMN %	12.1	12.9	12.2	11.8	14.3	12.7	12.4
WESTERN-PACIFIC	ESTIMATE	2,160	509	17,910	14,805	2,574	13,105	39,351
	% STD. ERROR	13.6	26.9	4.4	4.8	10.0	5.1	2.8
	ROW %	5.5	1.3	45.5	37.6	6.5	33.3	0.0
	COLUMN %	15.2	11.6	19.0	15.2	14.3	14.3	16.0
ALL AIRCRAFT	ESTIMATE	14,201	4,389	94,419	97,530	18,030	91,432	245,971
	% STD. ERROR	5.1	9.6	1.2	1.4	2.8	1.2	
	ROW %	5.8	1.8	38.4	39.7	7.3	37.2	

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- NO GROUP - NO REGULATORY AVIONICS

APPENDIX A

METHODOLOGY FOR THE 1993 GENERAL AVIATION AND AIR TAXI ACTIVITY AND AVIONICS (GAATAA) SURVEY

APPENDIX A

METHODOLOGY FOR THE 1993 GENERAL AVIATION AND AIR TAXI ACTIVITY AND AVIONICS (GAATAA) SURVEY

1. OVERVIEW

In 1994, the name of the General Aviation Activity and Avionics (GAAA) Survey was changed to the General Aviation and Air Taxi Activity and Avionics (GAATAA) Survey to reflect that the survey does include air taxi aircraft. Any aircraft identified as a commuter were excluded from most of the survey results. The number of computed aircraft types was expanded from 13 to 19 and the minimum manufacturer/model group cell was changed from 20 aircraft to 50 aircraft. Two new use categories were added. The survey methods used for the 1993 survey are almost identical to those used in previous surveys, except that data obtained in the 1990 telephone survey (see section 5.2, Adjustment of the 1991 GAAA Survey Data, on page A-14), have been used to make necessary adjustments to active aircraft and hours flown estimates.

1.1 Purpose of Survey

The purpose of the General Aviation and Air Taxi Activity and Avionics (GAATAA) Survey is to provide the Federal Aviation Administration (FAA) with information on the activity and avionics of the general aviation and air taxi fleet. The information obtained from the survey enables the FAA to monitor the general aviation fleet so that it can, among other activities, anticipate and meet demand for National Airspace System (NAS) facilities and services, assess the impact of regulatory changes on the fleet, and implement measures to assure the safe operation in the airspace of all aircraft.

1.2 Background

Prior to the current survey method, the FAA used the Aircraft Registration Eligibility, Identification, and Activity Report, AC Form 8050-73, to collect data on general aviation activity and avionics. The form was sent annually to all owners of civil aircraft in the United States and served two purposes: (1) Part 1 was the mandatory aircraft registration revalidation form, and (2) Part 2 was voluntary and applied to general aviation aircraft only, asking questions on the owner-discretionary characteristics of the aircraft such as flight hours, avionics equipment, base location, and use. This information was used by the FAA to estimate aircraft activity.

In 1978, the FAA replaced AC Form 8050-73 with a new system: Part 1 was replaced by a triennial registration program. In January 1978, the FAA implemented a new procedure, known as triennial revalidation, for maintaining its master file. Instead of requiring all aircraft owners to revalidate and update their aircraft registration annually, FAA only required revalidation for those aircraft owners who had not contacted the FAA registry for three years. This less frequent updating of the master file affected its accuracy and representativeness:

- 1) the accuracy of owners has deteriorated;
- 2) the master file contained a residue of aircraft which, under the old revalidation system, would have been deregistered and purged from the file but now remain under the new system.

Part 2 was replaced by the annual General Aviation Activity and Avionics Survey, FAA Form 1800-54, shown in Figure A.1. The survey is conducted annually, based on a statistically selected sample of aircraft, and it requests the same type of information as Part 2 of AC Form 8050-73. The first survey took place in 1978, collecting data on the 1977 general aviation fleet. The 1993 statistics in this report were derived from the seventeenth survey, which took place in 1994. Benefits resulting from the new system of data collection include quicker processing of the results, improved data quality, and a considerable savings in time and money to both the public and the Federal Government.

2. SURVEY COVERAGE

2.1 Aircraft

The General Aviation and Air Taxi Activity and Avionics (GAATAA) Survey covers, through a stratified probability sample, all civil aircraft registered with the FAA except those operated under Federal Aviation Regulations (FAR) Part 121. FAR Part 121, as modified by Special Federal Aviation Regulation 38 (SFAR-38), governs air carriers carrying passengers and cargo for hire and conducting scheduled and charter operations with aircraft having a seating capacity of more than 30 seats and/or a payload capacity of more than 7,500 pounds. Thus, the survey includes aircraft operating under:

- Part 91: General operating and flight rules.
- Part 125: Certification and operations: Airplanes having a seating capacity of 20 or more passengers or a maximum payload capacity of 6,000 pounds or more (but not for hire).
- Part 133: Rotorcraft external load operations.
- Part 135: Air taxi operators and commercial operators (aircraft identified as commuters during the survey are excluded from most of the survey results).
- Part 137: Agricultural aircraft operations.

Certain aircraft meeting the above criteria have been excluded from the survey. This group includes aircraft registered to dealers, aircraft in the process of being sold or with registration pending, aircraft with known invalid addresses, and aircraft for which not enough information was available to categorize them properly for sampling purposes.

Figure A.1 SURVEY QUESTIONNAIRE (Front Side)

Form Approved OMB NO. 2120-0060


 U.S. Department of Transportation Federal Aviation Administration	1993 GENERAL AVIATION AND AIR TAXI ACTIVITY AND AVIONICS SURVEY (As of December 31, 1993)
Submission of this form is voluntary. The information you provide will be used only for statistical purposes and will not be published or released in any form that would reveal specific information reported by an individually identifiable respondent.	
<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto;"></div> <p>INSTRUCTIONS: Please answer questions for the aircraft at right. Mail the completed questionnaire in the enclosed, postage-paid envelope to:</p>	<p>1. AIRCRAFT CHARACTERISTICS:</p> <p>Federal Aviation Administration 800 Independence Ave., SW APO-110 (Survey) Washington, DC 20591 Fax No. (202) 267-9636</p>
2. Did you operate this aircraft in 1993 primarily as an air carrier (FAR Parts 121 or 127 operator), or lease this aircraft to an air carrier? <input type="checkbox"/> YES Do not complete the rest of this form. Please return the form to the address shown above in the enclosed, postage-paid envelope. <input type="checkbox"/> NO Continue.	
3. Did you operate this aircraft in 1993 primarily as a commuter (FAR Part 135 operator performing scheduled passenger service only), or lease this aircraft to a commuter? <input type="checkbox"/> YES Go to question 16. <input type="checkbox"/> NO This form should be completed for all general aviation aircraft and air taxi aircraft (FAR Part 135 operators except commuter air carriers.)	
4. Was the aircraft flown in Calendar Year 1993? <input type="checkbox"/> YES Continue. <input type="checkbox"/> NO Survey is complete. Please return the form to the address shown above in the enclosed, postage-paid envelope.	
5. In what year was this aircraft manufactured?	
6. What were the total lifetime airframe hours as of December 31, 1993?	
7. In what state was this aircraft based as of December 31, 1993?	
8. How many hours did this aircraft fly in Calendar Year 1993? (Include estimated rental and leased hours.)	
9. What percent of the hours entered in Question 8 did this aircraft fly in each of the following use categories?	
CORPORATE/EXECUTIVE TRANSPORTATION--Company flying with a paid, professional crew.....a.	%
BUSINESS TRANSPORTATION--Individual use of an aircraft for business transportation without a paid, professional crew.....b.	%
PERSONAL/RECREATIONAL--Flying for personal reasons (excludes business transportation.).....c.	%
INSTRUCTIONAL--Flying under the supervision of a flight instructor (excludes proficiency flight.).....d.	%
AERIAL APPLICATION--Agriculture, health, forestry, cloud seeding, firefighting, insect control, etc.....e.	%
AERIAL OBSERVATION--Aerial mapping/photography, patrol, search and rescue, hunting, highway traffic advisory, ranching, surveillance, oil and mineral exploration, criminal pursuit, fish spotting, etc.....f.	%
SIGHT SEEING--All commercial sight seeing.....g.	%
EXTERNAL LOAD--Operations under FAR Part 133, rotorcraft external load operations, examples include helicopter hoist, hauling logs, etc.....h.	%
OTHER WORK USE--Construction work (not FAR Part 135 operation) parachuting, aerial advertising, towing gliders, etc.....i.	%
AIR TAXI--FAR Part 135 unscheduled passenger and all cargo operations (except commuter air carrier).....j.	%
What was the average revenue in dollars per hour for this aircraft in air taxi operations?.....k. \$	
OTHER--Experimentation, R&D, testing, Government demonstration, air show, air racing, etc.....l.	%
TOTAL (a+b+c+d+e+f+g+h+i+j+l) =	
100%	
10. Was the aircraft rented or leased to others in 1993? <input type="checkbox"/> YES <input type="checkbox"/> NO	
If "YES," for how many rental or leased hours.....2.	

Figure A.1 SURVEY QUESTIONNAIRE (Back Side)

Form Approved OMB NO. 2120-0060

11. What kind/grade of fuel was primarily used in this aircraft in 1993? Please check one. Jet Fuela. Aviation Fuel: 80 Octane.....b. Aviation Fuel: 100 Octanec. Aviation Fuel: 100 Octane-Low Leadd. Automotive Gasoline.....e. Propanef.		Transponder Equipment Mode A Transponder (TSO-c74-b/c).....k. <input type="checkbox"/> Mode C (Altitude Encoding).....l. <input type="checkbox"/> Mode S Transponder (TSO-c112).....m. <input type="checkbox"/> TCAS I.....n. <input type="checkbox"/> TCAS II.....o. <input type="checkbox"/> No Transponder equipment.....p. <input type="checkbox"/>			
12. In 1993, how many hours were flown under?: IFR Flight Plans.....a. VFR Flight Plans.....b. No Flight Plans.....c. Other/Unknown.....d. Total Hours (equal to number of hours reported in Question 8)		HRS FLOWN _____ _____ _____ _____ _____			
13. Of the IFR flight plan hours reported in Question 12(a), what percent of the hours did this aircraft fly under: Day Instrument Meteorological Conditions (IMC).....a. % Day Visual Meteorological Conditions (VMC).....b. % Night Instrument Meteorological Conditions (IMC).....c. % Night Visual Meteorological Conditions (VMC).....d. % TOTAL (a+b+c+d) = 100%		Navigation Equipment VOR Receiver: 100 channel (Portable).....q. <input type="checkbox"/> (Fixed).....r. <input type="checkbox"/> 200 channel (Portable).....s. <input type="checkbox"/> (Fixed).....t. <input type="checkbox"/> More than one VOR Receiver.....u. <input type="checkbox"/> Automatic Direction Finder (ADF).....v. <input type="checkbox"/> Distance Measuring Equipment (DME).....w. <input type="checkbox"/> Area Navigation Equipment (RNAV).....x. <input type="checkbox"/> Long Range Navigation Equipment (LRNAV).....y. <input type="checkbox"/> LORAN C VFR only.....z. <input type="checkbox"/> IFR Navigation.....aa. <input type="checkbox"/> IFR Approach.....bb. <input type="checkbox"/> OMEGA-VLF.....cc. <input type="checkbox"/> Global Position System (GPS).....dd. <input type="checkbox"/> Other (Doppler, INS, other).....ee. <input type="checkbox"/> No Navigation Equipment.....ff. <input type="checkbox"/>			
14. Of the total hours reported in Questions 12(b)(c)(d), what percent of the hours did the aircraft fly under?: Day Visual Meteorological Conditions (VMC).....a. % Night Visual Meteorological Conditions (VMC).....b. % TOTAL (a+b) = 100%		Precision Approach Equipment Localizer.....gg. <input type="checkbox"/> Marker Beacon.....hh. <input type="checkbox"/> Glide Slope.....ii. <input type="checkbox"/> No Precision Approach Equipment.....jj. <input type="checkbox"/>			
15. How many landings (including water, and touch and go landings) did this aircraft perform in each of the following categories in Calendar Year 1993? LOCAL FLIGHT.....a. CROSS COUNTRY FLIGHT.....b.		NUMBER OF LANDINGS _____ _____			
16. Does this aircraft have an electrical system to operate avionics equipment? a. <input type="checkbox"/> YES b. <input type="checkbox"/> NO Check all boxes that reflect this aircraft's avionics equipment capabilities as of December 1993: Communication equipment 360 channel (50 kHz channel spacing): Portable....c. <input type="checkbox"/> Fixed.....d. <input type="checkbox"/> 720 channel or more (25 kHz channel spacing): Portable....e. <input type="checkbox"/> Fixed.....f. <input type="checkbox"/> HF Radio.....g. <input type="checkbox"/> More than one communication system.....h. <input type="checkbox"/> Cockpit Voice Recorder.....i. <input type="checkbox"/> No communication equipment.....j. <input type="checkbox"/>		Guidance and Control Equipment Flight Director.....kk. <input type="checkbox"/> Electronic Flight Instrument System (EFIS).....ll. <input type="checkbox"/> Flight Management System.....mm. <input type="checkbox"/> Autopilot-Axis Controls: Longitudinal.....nn. <input type="checkbox"/> Vertical.....oo. <input type="checkbox"/> Lateral.....pp. <input type="checkbox"/> Approach Mode.....qq. <input type="checkbox"/> Autoland.....rr. <input type="checkbox"/> Flight Data Recorder.....ss. <input type="checkbox"/> No Navigation and Control Equipment.....tt. <input type="checkbox"/> Other Avionics Radar Altimeter.....uu. <input type="checkbox"/> Weather Radar.....vv. <input type="checkbox"/> Thunderstorm Detection Equipment.....ww. <input type="checkbox"/> Ground Proximity Warning System.....xx. <input type="checkbox"/>			
<p align="center">-Agency Display of Estimated Burden of the General Aviation and Air Taxi Activity and Avionics Survey-</p> <p>The public reporting burden for this collection of information is estimated to average 15 minutes per response. If you wish to comment on the accuracy of the estimate or to make suggestions for reducing this burden, please direct your comments to FAA and the OMB at the following addresses:</p> <table border="0"> <tr> <td>U.S. DOT Federal Aviation Administration 800 Independence Avenue, S.W. APO-110 (Survey) Washington, DC 20591</td> <td>Office of Management and Budget Paperwork Reduction Project (2120-0060) Washington, DC 20503</td> </tr> </table>				U.S. DOT Federal Aviation Administration 800 Independence Avenue, S.W. APO-110 (Survey) Washington, DC 20591	Office of Management and Budget Paperwork Reduction Project (2120-0060) Washington, DC 20503
U.S. DOT Federal Aviation Administration 800 Independence Avenue, S.W. APO-110 (Survey) Washington, DC 20591	Office of Management and Budget Paperwork Reduction Project (2120-0060) Washington, DC 20503				

2.2 Geographic

The sample survey covers general aviation and air taxi aircraft registered with the United States Aircraft Registry as of December 31, 1993. Over 99 percent of these aircraft are registered to owners living in the 50 states; the District of Columbia; Puerto Rico; and other U.S. territories, which include American Samoa, Guam, and the Virgin Islands.¹

2.3 Content

The survey questionnaire, FAA Form 1800-54 shown previously in Figure A.1, requests the aircraft owner to provide the following information on the sampled aircraft's characteristics and uses for various periods:

- 1) year aircraft was manufactured, hours by use, IFR hours, percentage of hours flown in Instrument Meteorological Conditions (IMC) and Visual Meteorological Conditions (VMC) during the day and evening, fuel type, and number of local and cross country landings for the entire calendar year 1993;
- 2) airframe hour reading and the aircraft's base location as of December 31, 1993; and
- 3) avionics equipment currently on board the aircraft.

3. SURVEY METHOD

The survey data were collected by mailing the questionnaire to the owners of the sampled aircraft in three mailings. The first mailing in February, 1994 covered all 29,950 aircraft in the sample and had a response rate of 47.3 percent, as shown in Table A.1. This accounted for approximately 76 percent of the total responses to the survey. The second mailing in March, 1994 included only those aircraft in the sample that had not yet responded. The second mailing had a response rate of 17.8 percent, which accounted for approximately 19 percent of the total responses to the survey. The third mailing in May, 1994 was sent to the owners of the sampled aircraft who had not responded to the first or second mailings as of a specified date. The third mailing produced a response rate of 8.1 percent, or approximately 5 percent of the total responses to the survey. The overall survey responses resulted in a response rate of 65.7 percent.

TABLE A.1 SUMMARY OF RESPONSE INFORMATION

<u>PHASE</u>	<u>VALID SAMPLE²</u>	<u>RESPONSES</u>	<u>RESPONSE RATE</u>	<u>% TOTAL RESPONSE</u>
1st Mailing	29,950	14,171	47.3	76.0
2nd Mailing	19,640	3,500	17.8	18.8
3rd Mailing	12,240	988	8.1	5.3
TOTAL:	28,411³	18,659	65.7	100.0

¹ Source: FAA Aircraft Registration Master File as of December 31, 1993.

² The Initial Valid Sample Size includes a total of 172 museum aircraft which were removed from the 1st mailing and considered as inactive aircraft which were not flown in 1993. All 172 museum aircraft are included in the total responses and were made a part of the final survey results.

³ The Total Valid Sample Size used to compute the overall survey response rate excludes all Postmaster returns (PMRs) and the 172 museum aircraft which were removed from all three mailings. The formula used to compute response rate was Total Number of Responses divided by the Sample Size minus the PMRs.

Each of the three mailings was accompanied by a cover letter, shown respectively in Figures A.2, A.3, and A.4 at the back of this Appendix.

4. SAMPLE DESIGN

4.1 Sample Frame and Size

The FAA Mike Monroney Aeronautical Center in Oklahoma City maintains the Aircraft Registration Master File, which is the official record of registered civil aircraft in the United States.

The sample frame is made up of all aircraft identified as general aviation in the master file (according to the definition in Section 2.1), with the following exceptions:

- 1) aircraft registered to dealers;
- 2) aircraft with "Sale Reported" or "Registration Pending" appearing in the record instead of the owner's name;
- 3) aircraft with a known, inaccurate owner's address; and
- 4) aircraft with missing state of registration, aircraft make-model- series code, or aircraft type information.

For calendar year 1993, the sample frame consisted of 245,971 general aviation aircraft records from which 29,950 records were sampled, yielding a 12.2 percent sample. Table A.2 shows, by aircraft type, the distribution of the sample compared to that of the population. This clearly demonstrates the disproportionality of the sample to the population, an intended result of the sample design to gain efficiency and to control errors.

4.2 Description of Sample Design

The sample design employed was a stratified, systematic design from a random start. The sample was selected from a two-way stratified frame matrix. The two stratification criteria were:

- 1) state or territory of aircraft registration, and
- 2) a variable called the make-model index, constructed from a combination of the aircraft type and the aircraft manufacturer/model group.

**TABLE A.2 SAMPLE AND POPULATION
DISTRIBUTION BY AIRCRAFT TYPE**

<u>TYPE</u>	<u>APPROXIMATE POPULATION</u>	<u>SAMPLE SIZE</u>	<u>SAMPLE AS % OF POPULATION</u>
Fixed Wing - Piston			
1 Engine: 1-3 Seats	68,813	9,277	13.48
1 Engine: 4+ Seats	109,606	7,902	7.21
2 Engine: 1-6 Seats	15,187	2,142	14.1
2 Engine: 7+ Seats	6581	1,354	20.57
Piston: Other	95	73	76.84
Fixed Wing - Turboprop			
1 Engine: Total	807	196	24.29
2 Engine: 1-12 Seats	4,086	758	18.55
2 Engine: 13+ Seats	868	611	70.39
Turboprop: Other	71	42	59.15
Fixed Wing - Turbojet			
2 Engine	4,272	790	18.49
Turbojet: Other	434	240	55.3
Rotorcraft			
Piston	4,274	1,741	40.73
1 Engine: Turbine	3,040	780	25.66
Multi-Engine: Turbine	906	398	43.93
Other Aircraft			
Gliders	2,760	730	26.45
Lighter-than-Air	5,497	829	15.08
Experimental			
Home Built	12,683	722	5.69
Exhibition	2,617	623	23.81
Other	3,374	742	21.99
TOTAL:	245,971	29,950	12.18

The 54 levels of the state criterion and the 241 levels of the make-model index yielded a matrix of 54 by 241 or 13,014 cells (strata) among which the frame was divided for sampling.

The FAA's primary requirement is for estimates of average annual flight hours per aircraft, necessitating optimal determination of sample sizes based on flight hour variation by state and by make-model index, and not on population. Hence, the sample was not proportional to size, and a sampling fraction was determined for each cell with a non-zero population. Sampling was then

performed systematically from a random start within individual cells, yielding a final sample size of 29,950 aircraft.

Initially, each aircraft in the sample was given a weight which was the inverse of its cell's sampling fraction, and which corresponded to the number of aircraft in the sample frame represented by that aircraft. When all responses to the survey were tallied, each weight was adjusted according to the response rate for the cell, counting an aircraft for which no survey questions were answered as a non-respondent, and an aircraft for which at least one question was answered as a respondent.

The weight adjustment is described as follows:

- 1) non-respondents' weights were changed to zero; and
- 2) the weights of all responding aircraft were adjusted uniformly by dividing the initial weight by the response rate for the cell.

This method of weight adjustment has several attributes. It actually incorporates the response rates into the final weights and simplifies estimation procedures.

4.3 Error

Errors associated with estimates derived from sample survey results fall into two categories: sampling and non-sampling errors. Sampling errors occur because the estimates are based on a sample rather than the entire population.

Non-sampling errors arise from a number of sources such as non-response, inability or unwillingness of respondents to provide correct information, differences in interpretation of questions, mistakes in recording or coding the data obtained, and others. The following sections discuss the two types of errors.

4.4 Sampling Error

In a designed survey, the sampling error associated with an estimate is generally unknown, but a measurable quantity, known as the standard error, is often used as a guide to the potential magnitude of sampling error. The standard error measures the variation which would occur among the estimates from all possible samples of the same design from the same population. It measures the precision with which an estimate approximates the average result of all possible samples or the result of a survey in which all elements of the population were sampled.

Through sample design techniques, the statistician can control the sizes of standard errors on a few key variables, known as design variables, in the survey. The design variables in the GAAA Survey are the average annual hours flown per aircraft by aircraft type, by aircraft manufacturer/model characteristics and by state of aircraft registration. The sample is designed to produce standard errors on these variables at levels specified by the FAA. No controls are placed on the standard errors of the non-design variables.

An estimate and its standard error make it possible to construct an interval estimate with the prescribed confidence that the interval will include the average value of the estimate from all possible samples of the population. Table A.3 shows selected interval widths and their corresponding confidence.

TABLE A.3 CONFIDENCE OF INTERVAL ESTIMATES

<u>WIDTH OF INTERVAL</u>	<u>APPROXIMATE CONFIDENCE THAT INTERVAL INCLUDES AVERAGE VALUE</u>
1 Standard error	68%
2 Standard error	95%
3 Standard error	99%

Every estimate resulting from a sample survey, whether it be for a design or non-design variable, has sampling error associated with it. The user of survey results must consider sampling error along with the point estimate itself when making inferences or drawing conclusions about the sample population. A large standard error relative to an estimate indicates lack of precision and, inversely, a small standard error indicates precision. To facilitate the comparison of estimates and their errors, the tables in this publication display standard errors for all estimated quantities. For the most part, the measure of precision presented in this report is the percent standard error (% s.e.), which is merely the ratio of the standard error to the estimate times 100 (to convert the fraction to a percent). In addition to immediately communicating the relative precision of the estimate, it allows ready comparison of the survey's performance across variables. The following is an example of how to use the % s.e.: from Table 2.1, a 95 percent confidence interval for the number of active rotorcraft with piston engines would be 2,470 plus or minus 2 (7.6/100)(2,470) or the interval between 2,125 and 2,815. One would say with 95 percent confidence that the number of active rotorcraft with piston engines lies somewhere between 2,125 and 2,815. Another way of expressing this is that we are highly confident (95 percent) that the number of active rotorcraft with piston engines is within plus or minus 2(7.6) percent, or 15.2 percent of 2,470.

4.5 Non-Sampling Error

Non-sampling error can be reduced through survey design, although the amount of reduction is difficult, if not impossible, to quantify in any given design. There are, however, various techniques which can limit non-sampling error.

Several of these techniques were incorporated into the design of the GAAA Survey and are itemized below:

- 1) A second and third mailing and a prompting (reminder) letter were sent to nonrespondents in addition to the original mailing in order to improve the response rate, since a low response rate is a major cause of non-sampling error.

- 2) To assure the owners of the confidentiality of their responses, the back side of the questionnaire cover letter informed them that:

"The information you have provided in the past has never been published or released in any form that would reveal specific information reported by any individually identifiable respondent."⁴

- 3) Comprehensive editing procedures insured the accuracy of the data transcription to machine readable form and the internal consistency of responses.
- 4) The official and most accurate source of information available on the general aviation and air taxi fleet, the FAA Aircraft Registration Master File, was used as the sampling frame.
- 5) Results were adjusted using data from a survey of nonrespondents. This adjustment is described in Section 5.1, Adjustments Based on a Survey of Nonrespondents, on page A-12.

5. RESPONSE RATE

The response rate for 1993 was of 65.7%. Possible causes for the less than 100% sample rate response include:

- The deterioration of the currency of aircraft owners' addresses in the Aircraft Registration Master File, the sample frame. This has caused a gradual increase in the percentage of questionnaires returned undelivered by the postmaster.
- Repeated sampling of aircraft in two and possibly three or four successive years. Due to the design of the sample to achieve specified precision in estimates for states and manufacturer/model groups of aircraft, it is impossible to avoid sampling some of the same aircraft in consecutive years. Owners of such aircraft may have been less willing to respond. Increasing the minimum cell size may have somehow mitigated the problem in 1994.

Table A.4, on the following page, reveals the responses by aircraft type.

⁴ See Figure A.2.

TABLE A.4 RESPONSE RATE BY AIRCRAFT TYPE

<u>TYPE</u>	<u>SAMPLE</u>	<u>PMR's</u>	<u>NO RESPONSE</u>	<u>RESPONSE RATE</u>
Fixed Wing - Piston				
1 Engine: 1-3 Seats	9,271	359	6,255	70.19
1 Engine: 4+ Seats	7,889	326	5,196	68.70
2 Engine: 1-6 Seats	2,138	119	1,294	64.09
2 Engine: 7+ Seats	1,327	87	646	52.10
Piston: Other	73	7	34	51.52
Fixed Wing - Turboprop				
1 Engine: Total	192	7	96	51.89
2 Engine: 1-12 Seats	742	43	424	60.66
2 Engine: 13+ Seats	571	18	225	40.69
Turboprop: Other	35	2	14	42.42
Fixed Wing - Turbojet				
2 Engine	764	31	482	65.76
Turbojet: Other	233	14	136	62.10
Rotorcraft				
Piston	1,729	115	952	58.98
1 Engine: Turbine	772	32	381	51.49
Multi-Engine: Turbine	388	8	212	55.79
Other Aircraft				
Gliders	730	40	482	69.86
Lighter-than-Air	829	59	459	59.61
Experimental				
Home Built	716	32	498	72.81
Exhibition	622	32	386	65.42
Other	739	36	487	69.27
TOTAL:	29,760	1,367	18,659	65.72

5.1 Adjustments Based on a Survey of Nonrespondents

Since the conduct of the first General Aviation Activity and Avionics (GAAA) Survey in 1977, the survey data have not been adjusted to account for nonrespondents (aircraft owners selected as part of the survey sample but who chose not to complete and return the form) because telephone surveys of nonrespondents conducted in 1977, 1978, and 1979 did not show any significant differences or

inconsistencies between respondents' and nonrespondents' replies. In 1980, the telephone survey was discontinued as a cost-saving measure.

The GAAA Survey response rate has fallen from over 70 percent prior to 1980 to 60 percent in most years since 1983, and the number of postmaster returns has greatly increased. Therefore, the FAA decided to conduct a telephone survey of nonrespondents to the 1990 GAAA mail Survey. This telephone survey found that there is a significant difference in the ratio of active aircraft and inactive aircraft between mail respondents and telephone respondents. Therefore, the results of the telephone survey were integrated into the 1991, 1992, and 1993 surveys to estimate more accurately active aircraft and hours flown.

5.2 The Nonrespondent Survey

The substantial nonresponse rate for the GAAA Survey and developments in the sampling frame outlined above have led to a concern that there may be a response bias in the survey, especially with respect to the percent and number of aircraft that are active. The hypothesis is that aircraft of owners that do not respond to the survey are less likely to be active than aircraft of owners that do. If this hypothesis is correct, the results of the survey overstate the percent and number of active aircraft.

In order to test this hypothesis, and to provide data for adjusting the survey findings, a survey of nonrespondents to the 1990 survey was conducted. This survey focused on two substantive questions:

Was this aircraft flown during calendar year 1990?

If so:

How many hours did this aircraft fly in calendar year 1990?

The survey of nonrespondents also included screening questions to determine whether the respondent still owned the aircraft, whether the aircraft was flown as an air carrier.

The survey of nonrespondents was conducted by telephone. The sample for the survey was selected at random from the nonrespondents in the 1990 GAAA Survey sample. The sampling objective was to obtain a sample large enough to achieve 95 percent confidence that the telephone survey estimate of the proportion of nonrespondents with active aircraft would be within 10 percent of the true proportion. A total of 1,203 aircraft owners were included in the telephone survey. Of the aircraft owners in the sample, telephone numbers could not be obtained for 435 (36.2 percent), 300 (24.9 percent) could not be reached or refused to respond, 89 (7.4 percent) no longer owned the aircraft and were asked no further questions, and 379 (31.5 percent) provided the survey information sought. This number of respondents providing information was adequate to meet the statistical objectives of the sample design.

The principal results of the telephone survey were estimates of the percent of aircraft among GAAA Survey nonrespondents that were active and the average hours flown by these aircraft. Among the telephone survey respondents, 61.7 percent reported active general aviation use of their aircraft. This is substantially less than the GAAA Survey estimates for 1990 (79.7 percent) and for 1991 (80.3 percent), and the difference between the GAAA Survey respondents and the nonrespondents is statistically highly significant. The active telephone survey respondents reported an average of 158.6 annual hours flown, which is much the same as the average of annual hours flown reported in the 1990 or 1991 GAAA Survey.

5.3 Adjustment of the 1993 GAATAA Survey Data

The 1990 Nonresponse Survey data were used to adjust the 1993 GAATAA Survey results. Adjustments were made for the percent and number of active aircraft and for average hours flows. Total hours flown were adjusted indirectly, since they are derived from the number of active aircraft and average hours flown. In essence, the adjustment was made by replacing the GAATAA Survey results for percent active and average hours with weighted averages of the results of the 1993 GAATAA Survey and the 1990 Nonresponse Survey. The exact procedure is described below. The adjustments were made for each aircraft type, but they carry over to results for aircraft groups, regions and states. Adjustments were made in all tables in Chapters 1, 2, 3, 4, 5, and 6 in which the 1993 number or percent of aircraft active, average hours flown, or total hours flown appear. Tables in Chapters 7, 8, and 9 were not adjusted, because they are driven entirely or primarily by avionics data, which were not collected in the Telephone Survey.

Weighted averages of the percent of aircraft active and average hours flown were computed as part of the adjustment procedure. The values of percent of aircraft active and average hours flown were taken from the 1993 GAATAA Survey results and the 1990 Telephone Survey results. The weights used were the initial weights for the aircraft that responded to the 1993 GAATAA Survey and for 1990 GAAA Survey nonrespondents. Weights of the GAATAA Survey forms that were returned by the postmaster were not used in the calculations. This "non-treatment" of postmaster returns (PMRs) in the sample has the effect of assuming that PMRs are similar to the average adjusted results. Separate weighted averages were calculated for each of the nineteen aircraft types in the 1993 GAATAA survey. The weighted averages for percent of aircraft active were calculated as follows:

$$\frac{\{(\text{Percent Active})_{Ri} \times (\text{Total Weight})_{Ri}\} + \{(\text{Percent Active})_{TRi} \times (\text{Total Weight})_{NRi}\}}{(\text{Total Weight})_{Ri} + (\text{Total Weight})_{NRi}}$$

Where: R = GAATAA Respondents

TR = Telephone Survey Respondents

NR = GAATAA Nonrespondents

i = Aircraft Type (i = 1 to 19)

The weighted averages for average hours flown were calculated as follows:

$$\frac{\{(Average\ Hours)_{Ri} \times (Total\ Weight)_{Ri}\} + \{(Average\ Hours)_{TRi} \times (Total\ Weight)_{NRi}\}}{(Total\ Weight)_{Ri} + (Total\ Weight)_{NRi}}$$

Where: R = GAATAA Respondents
 TR = Telephone Survey Respondents
 NR = GAATAA Nonrespondents
 i = Aircraft Type (i = 1 to 19)

The actual adjustment to the 1993 GAATAA results was made by modifying the final weight of each aircraft that responded to the GAATAA Survey. First the weighted averages were converted into adjustment factors for each aircraft type, and then the weight of each responding aircraft was multiplied by the adjustment factor for the aircraft type of that aircraft. The adjustment factors were computed by dividing the weighted averages of the percent active and average hours flown by the unadjusted GAATAA Survey results for these values, i.e.:

$$\frac{(Percent\ Active)_{Wai}}{(Percent\ Active)_{Ri}} \quad \text{and} \quad \frac{(Average\ Hours)_{Wai}}{(Average\ Hours)_{Ri}}$$

Where: WA = Weighted Average (calculated above)
 R = GAATAA Survey Respondents
 i = Aircraft Type (i = 1 to 19)

Weights of all aircraft in an aircraft type were adjusted by the same proportional amount. This procedure provided a limited amount of disaggregation of the adjustment. Among other implications of this procedure, all aircraft groups within each aircraft type were also adjusted by the same proportional amount. Adjusting the weights of each individual respondent aircraft allowed results for regions and States to be adjusted, even though the adjustment factors were computed at the aircraft type level. Adjustment at the individual record level also produced adjustments in the standard errors.

In 1993, the adjustment lowered the estimate of the total number of active aircraft by 9.3 percent. The number of active aircraft in sixteen individual aircraft types also fell, although there were small upward adjustments for three aircraft types. The adjustment increased the overall estimate of average hours flown by 1.0 percent. Average hours flown was adjusted downward for nine aircraft types and upward for four aircraft types, the largest upward adjustment being for turbine rotorcraft. The adjustment lowered estimate of total hours flown by 9.3 percent, with hours flown adjusted downward for fifteen aircraft types and upward for four.



U.S. Department
of Transportation

Federal Aviation
Administration

800 Independence Ave., S.W.
Washington, D.C. 20591

February, 1994

Dear Aircraft Owner:

This is the 17th year that the Federal Aviation Administration (FAA) has conducted the annual General Aviation and Air Taxi Activity and Avionics Survey to gather statistical information on the general aviation and air taxi fleet. The information collected in past surveys is used in a variety of ways. It helps to pinpoint potential safety problems and forecast our future work force and new facility requirements. Private industry organizations and individuals also use the survey information for research and analyses.

The FAA, in preparing the 1993 survey, conducted a public review of the survey questionnaire and procedures. The Aircraft Owners and Pilots Association, the Experimental Aircraft Association, the General Aviation Manufacturers Association, the National Business Aircraft Association, the Small Aircraft Manufacturers Association, the Helicopter Association International, and Aviation Data Service, Inc. provided comments on the survey program. Based upon their joint input and internal review, the FAA revised the 1993 survey questionnaire and modified the survey procedures.

You are one of about 30,000 aircraft owners selected to participate in the 1993 survey. Enclosed is a revised questionnaire requesting information for calendar year 1993. Please read the instructions on the back of this letter, and answer all questions for the aircraft identified on the form.

I urge you to complete the questionnaire and use the enclosed envelope to mail it in today. Your prompt response will eliminate the need for additional follow-up contacts.

If you have any questions or need further assistance, please call the following toll-free number: 1-800-373-9040 and one of my staff will answer your questions. If your call is not returned within 24 hours, please contact me at 202-267-3355.

We thank you for your participation.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert L. Bowles".

Robert L. Bowles
Manager, Statistics and Forecast Branch

Enclosures

FIGURE A.2 FIRST COVER LETTER PAGE 2

The 1993 General Aviation and Air Taxi Activity and Avionics Survey

Why does the FAA collect this information?

For the past 16 years, the FAA has conducted an annual sample survey to collect statistical information on the use of the general aviation fleet. The information collected helps the FAA understand more about general aviation activities, assess the impact of general aviation on the National Airspace System, and determine its need for traffic facilities and services. These data are used by the Federal, state, and local governments, as well as by private industry and individuals, for safety analyses, planning, forecasting, research, and development. We have made a concerted effort to minimize the number of questions we ask you, while still meeting the needs of the government and the public for aviation information.

How does the FAA handle the survey information?

The information you have provided in the past has never been published or released in any form that would reveal specific information reported by any individually identifiable respondent.

Why was I selected for this survey?

This survey covers general aviation aircraft and aircraft operated by air taxis and commuter air carriers. The survey sample is randomly selected, based upon the FAA Aircraft Registry as of December 31, 1993. The Registry shows you as the registrant of this aircraft on that date. Your aircraft is one of approximately 30,000 general aviation aircraft selected to be surveyed this year. When more than one of your aircraft is selected, you will receive, under separate cover, a questionnaire provided for each aircraft. Please answer all questions for the identified aircraft. If you cannot provide a precise answer to any questions, make your best estimate.

What should I do if . . .

- ➔ **IF** you are no longer in possession of this aircraft but were the registered owner on December 31, 1993, try to answer all the questions. If your aircraft was sold prior to December 31, 1993, please forward this mail to the new owner for response.
- ➔ **IF** your aircraft was operated by an airline (FAR Part 121 or 127 operator), *indicate this in question 2 and return the questionnaire to FAA.*
- ➔ **IF** your aircraft, for whatever reason, was not in use during calendar year 1993, *answer questions 4 and return the questionnaire to FAA.* The fact that your aircraft was not flown during the year is just as important as the fact that it was flown.
- ➔ **IF** your aircraft was operated primarily by another person or company (e.g. leased), obtain the necessary information from the operator, or forward this mail to the person or firm for response.
- ➔ **IF** your aircraft was stolen, destroyed, lost, donated to an organization, or otherwise not in your possession, and you have not yet notified the FAA Aircraft Registry in writing, do so immediately at the following address:

Aircraft Registration Branch, AVN-450
7500 South MacArthur Blvd.
Oklahoma City, OK 73125.

The signature of the aircraft owner of record is required to make any changes to the aircraft registration record. If you have any questions regarding the registration of your aircraft, please call (405) 954-3116.

- ➔ **IF** you wish to fax the survey information to us, our Fax No. is: (202) 267-9636.
- ➔ **IF** you have a question about the survey, call us on our toll free number: 1-800-373-9040.

FIGURE A.3 SECOND COVER LETTER PAGE 1



U.S. Department
of Transportation

Federal Aviation
Administration

800 Independence Ave., S.W.
Washington, D.C. 20591

March, 1994

Dear Aircraft Owner:

We need your input!

In February, we sent you a General Aviation and Air Taxi Activity and Avionics Survey questionnaire to compile 1993 aircraft activity and avionics information. As of this date, we have not received your response.

In case our first mailing never reached you or was misplaced, we have enclosed another identical questionnaire with a return postage-paid envelope for your convenience. I urge you to read the instructions on the back page of this letter, complete the questionnaire, and use the enclosed envelope to return it to us today.

If you have any questions or need further assistance, please call the following toll-free number: 1-800-373-9040, and one of my staff will answer your questions. If your call is not returned within 24 hours, please contact me at 202-267-3355. If your response is already in the mail, we thank you for your cooperation.

We look forward to receiving your response so that we can know more about general aviation flying and serve you better. We thank you for your participation.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Robert L. Bowles'.

Robert L. Bowles
Manager, Statistics and Forecast Branch

Enclosure

The 1993 General Aviation and Air Taxi Activity and Avionics Survey

Why does the FAA collect this information?

For the past 16 years, the FAA has conducted an annual sample survey to collect statistical information on the use of the general aviation fleet. The information collected helps the FAA understand more about general aviation activities, assess the impact of general aviation on the National Airspace System, and determine its need for traffic facilities and services. These data are used by the Federal, state, and local governments, as well as by private industry and individuals, for safety analyses, planning, forecasting, research, and development. We have made a concerted effort to minimize the number of questions we ask you, while still meeting the needs of the government and the public for aviation information.

How does the FAA handle the survey information?

The information you have provided in the past has never been published or released in any form that would reveal specific information reported by any individually identifiable respondent.

Why was I selected for this survey?

This survey covers general aviation aircraft and aircraft operated by air taxis and commuter air carriers. The survey sample is randomly selected, based upon the FAA Aircraft Registry as of December 31, 1993. The Registry shows you as the registrant of this aircraft on that date. Your aircraft is one of approximately 30,000 general aviation aircraft selected to be surveyed this year. When more than one of your aircraft is selected, you will receive, under separate cover, a questionnaire provided for each aircraft. Please answer all questions for the identified aircraft. If you cannot provide a precise answer to any questions, make your best estimate.

What should I do if . . .

- ➔ **IF** you are no longer in possession of this aircraft but were the registered owner on December 31, 1993, try to answer all the questions. If your aircraft was sold prior to December 31, 1993, please forward this mail to the new owner for response.
- ➔ **IF** your aircraft was operated by an airline (FAR Part 121 or 127 operator), *indicate this in question 2 and return the questionnaire to FAA.*
- ➔ **IF** your aircraft, for whatever reason, was not in use during calendar year 1993, *answer questions 4 and return the questionnaire to FAA.* The fact that your aircraft was not flown during the year is just as important as the fact that it was flown.
- ➔ **IF** your aircraft was operated primarily by another person or company (e.g. leased), obtain the necessary information from the operator, or forward this mail to the person or firm for response.
- ➔ **IF** your aircraft was stolen, destroyed, lost, donated to an organization, or otherwise not in your possession, and you have not yet notified the FAA Aircraft Registry in writing, do so immediately at the following address:

Aircraft Registration Branch, AVN-450
7500 South MacArthur Blvd.
Oklahoma City, OK 73125.

The signature of the aircraft owner of record is required to make any changes to the aircraft registration record. If you have any questions regarding the registration of your aircraft, please call (405) 954-3116.

- ➔ **IF** you wish to fax the survey information to us, our Fax No. is: (202) 267-9636.
- ➔ **IF** you have a question about the survey, call us on our toll free number: 1-800-373-9040.



U.S. Department
of Transportation

Federal Aviation
Administration

800 Independence Ave., S.W.
Washington, D.C. 20591

April, 1994

Dear Aircraft Owner:

This is your last opportunity to participate in the 1993 General Aviation and Air Taxi Activity and Avionics Survey. We need your help.

In February and March, we sent you a General Aviation and Air Taxi Activity and Avionics Survey questionnaire to compile the 1993 aircraft activity and avionics information. As of this date, we have not received your response.

In case the previous mailings never reached you or were misplaced, we have enclosed another identical questionnaire with a return postage-paid envelope for your convenience. I urge you to read the instructions on the back page of this letter, complete the questionnaire, and use the enclosed envelope to return it to us today.

If you have any questions or need further assistance, please call the following toll-free number: 1-800-373-9040, and one of my staff will answer your questions. If your call is not returned within 24 hours, please contact me at 202-267-3355.

We look forward to receiving your response no later than May 15, so that we can include your input in the 1993 statistics.

If your response is already in the mail, we thank you for your cooperation.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert L. Bowles".

Robert L. Bowles
Manager, Statistics and Forecast Branch

Enclosure

The 1993 General Aviation and Air Taxi Activity and Avionics Survey

Why does the FAA collect this information?

For the past 16 years, the FAA has conducted an annual sample survey to collect statistical information on the use of the general aviation fleet. The information collected helps the FAA understand more about general aviation activities, assess the impact of general aviation on the National Airspace System, and determine its need for traffic facilities and services. These data are used by the Federal, state, and local governments, as well as by private industry and individuals, for safety analyses, planning, forecasting, research, and development. We have made a concerted effort to minimize the number of questions we ask you, while still meeting the needs of the government and the public for aviation information.

How does the FAA handle the survey information?

The information you have provided in the past has never been published or released in any form that would reveal specific information reported by any individually identifiable respondent.

Why was I selected for this survey?

This survey covers general aviation aircraft and aircraft operated by air taxis and commuter air carriers. The survey sample is randomly selected, based upon the FAA Aircraft Registry as of December 31, 1993. The Registry shows you as the registrant of this aircraft on that date. Your aircraft is one of approximately 30,000 general aviation aircraft selected to be surveyed this year. When more than one of your aircraft is selected, you will receive, under separate cover, a questionnaire provided for each aircraft. Please answer all questions for the identified aircraft. If you cannot provide a precise answer to any questions, make your best estimate.

What should I do if . . .

- **IF** you are no longer in possession of this aircraft but were the registered owner on December 31, 1993, try to answer all the questions. If your aircraft was sold prior to December 31, 1993, please forward this mail to the new owner for response.
- **IF** your aircraft was operated by an airline (FAR Part 121 or 127 operator), *indicate this in question 2 and return the questionnaire to FAA.*
- **IF** your aircraft, for whatever reason, was not in use during calendar year 1993, *answer questions 4 and return the questionnaire to FAA.* The fact that your aircraft was not flown during the year is just as important as the fact that it was flown.
- **IF** your aircraft was operated primarily by another person or company (e.g. leased), obtain the necessary information from the operator, or forward this mail to the person or firm for response.
- **IF** your aircraft was stolen, destroyed, lost, donated to an organization, or otherwise not in your possession, and you have not yet notified the FAA Aircraft Registry in writing, do so immediately at the following address:

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Oklahoma City, OK 73125.

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- **IF** you wish to fax the survey information to us, our Fax No. is: (202) 267-9636.
- **IF** you have a question about the survey, call us on our toll free number: 1-800-373-9040.

APPENDIX B

AIRCRAFT GROUP NAME - FAA MANUFACTURER/MODEL CODES

APPENDIX B

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
1ENG HEL(13)	0260301	1ENG PIST(1)	00301JT	1ENG PIST(1)	0400501	1ENG PIST(1)	056081X	1ENG PIST(1)	05608C2
1ENG HEL(13)	0260302	1ENG PIST(1)	0030413	1ENG PIST(1)	0530102	1ENG PIST(1)	0560822	1ENG PIST(1)	05608CB
1ENG HEL(13)	1180815	1ENG PIST(1)	0030432	1ENG PIST(1)	056010L	1ENG PIST(1)	056082D	1ENG PIST(1)	05608CE
1ENG HEL(13)	1181007	1ENG PIST(1)	0030434	1ENG PIST(1)	0560117	1ENG PIST(1)	056082E	1ENG PIST(1)	05608CK
1ENG HEL(13)	1182100	1ENG PIST(1)	0030435	1ENG PIST(1)	056012N	1ENG PIST(1)	056082X	1ENG PIST(1)	05608CC
1ENG HEL(13)	1182105	1ENG PIST(1)	0030439	1ENG PIST(1)	056014S	1ENG PIST(1)	056083D	1ENG PIST(1)	05608D6
1ENG HEL(13)	1300180	1ENG PIST(1)	0030452	1ENG PIST(1)	056016W	1ENG PIST(1)	056083G	1ENG PIST(1)	05608DA
1ENG HEL(13)	1302906	1ENG PIST(1)	0030457	1ENG PIST(1)	0560171	1ENG PIST(1)	056083J	1ENG PIST(1)	05608DD
1ENG HEL(13)	3300430	1ENG PIST(1)	0030461	1ENG PIST(1)	056017H	1ENG PIST(1)	056083M	1ENG PIST(1)	05608DM
1ENG HEL(13)	3376502	1ENG PIST(1)	0030464	1ENG PIST(1)	056017K	1ENG PIST(1)	056083N	1ENG PIST(1)	05608DT
1ENG HEL(13)	4360125	1ENG PIST(1)	0030465	1ENG PIST(1)	056018Q	1ENG PIST(1)	056084B	1ENG PIST(1)	05608DZ
1ENG HEL(13)	4360127	1ENG PIST(1)	0030466	1ENG PIST(1)	056018R	1ENG PIST(1)	056084E	1ENG PIST(1)	05608EM
1ENG HEL(13)	4360131	1ENG PIST(1)	0030470	1ENG PIST(1)	056019G	1ENG PIST(1)	056084T	1ENG PIST(1)	05608EU
1ENG HEL(13)	4360406	1ENG PIST(1)	0030472	1ENG PIST(1)	05601AH	1ENG PIST(1)	056084U	1ENG PIST(1)	05608EV
1ENG HEL(13)	4361415	1ENG PIST(1)	0030504	1ENG PIST(1)	05601BW	1ENG PIST(1)	0560852	1ENG PIST(1)	05608EX
1ENG HEL(13)	4470904	1ENG PIST(1)	0030523	1ENG PIST(1)	05601CE	1ENG PIST(1)	056085U	1ENG PIST(1)	05608FA
1ENG HEL(13)	4470905	1ENG PIST(1)	0030529	1ENG PIST(1)	05601DJ	1ENG PIST(1)	0560866	1ENG PIST(1)	05608FC
1ENG HEL(13)	4800704	1ENG PIST(1)	0030531	1ENG PIST(1)	05601E2	1ENG PIST(1)	056086A	1ENG PIST(1)	05608FD
1ENG HEL(13)	4800705	1ENG PIST(1)	0030539	1ENG PIST(1)	05601EK	1ENG PIST(1)	056086G	1ENG PIST(1)	05608FH
1ENG HEL(13)	8059501	1ENG PIST(1)	0030547	1ENG PIST(1)	05601FF	1ENG PIST(1)	056086J	1ENG PIST(1)	05608FR
1ENG HEL(13)	8141803	1ENG PIST(1)	0030548	1ENG PIST(1)	05601GG	1ENG PIST(1)	056086T	1ENG PIST(1)	05608FX
1ENG HEL(13)	8141807	1ENG PIST(1)	0100102	1ENG PIST(1)	05601HB	1ENG PIST(1)	0560875	1ENG PIST(1)	05608G8
1ENG HEL(13)	8141809	1ENG PIST(1)	0144306	1ENG PIST(1)	05601HB	1ENG PIST(1)	056087C	1ENG PIST(1)	05608GB
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1ENG HEL(13)	8141842	1ENG PIST(1)	0190101	1ENG PIST(1)	05601KQ	1ENG PIST(1)	056087G	1ENG PIST(1)	05608GX
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1ENG HEL(13)	8680610	1ENG PIST(1)	0320102	1ENG PIST(1)	05607AC	1ENG PIST(1)	056089M	1ENG PIST(1)	05608JL
1ENG HEL(13)	8680975	1ENG PIST(1)	0390302	1ENG PIST(1)	05607AD	1ENG PIST(1)	05608A9	1ENG PIST(1)	05608JQ
1ENG HEL(13)	8940101	1ENG PIST(1)	0400102	1ENG PIST(1)	0560802	1ENG PIST(1)	05608AQ	1ENG PIST(1)	05608JS
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1ENG HEL(13)	9650165	1ENG PIST(1)	0400107	1ENG PIST(1)	056081K	1ENG PIST(1)	05608AU	1ENG PIST(1)	05608JZ
1ENG HEL(13)	9650166	1ENG PIST(1)	0400108	1ENG PIST(1)	056081Q	1ENG PIST(1)	05608AZ	1ENG PIST(1)	05608KY
1ENG PIST(1)	00301FK	1ENG PIST(1)	0400113	1ENG PIST(1)	056081S	1ENG PIST(1)	05608B9	1ENG PIST(1)	05608L2
1ENG PIST(1)	00301G8	1ENG PIST(1)	0400302	1ENG PIST(1)	056081T	1ENG PIST(1)	05608BH	1ENG PIST(1)	05608L7
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							05608BX	1ENG PIST(1)	05608LE

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
1ENG PIST(1)	05608LF	1ENG PIST(1)	05608SR	1ENG PIST(1)	05608X1	1ENG PIST(1)	056099S	1ENG PIST(1)	05609JU
1ENG PIST(1)	05608LJ	1ENG PIST(1)	05608SV	1ENG PIST(1)	05608X6	1ENG PIST(1)	05609AQ	1ENG PIST(1)	05609UZ
1ENG PIST(1)	05608LN	1ENG PIST(1)	05608T4	1ENG PIST(1)	05608Y1	1ENG PIST(1)	05609BJ	1ENG PIST(1)	05609V1
1ENG PIST(1)	05608LR	1ENG PIST(1)	05608TA	1ENG PIST(1)	05608Y6	1ENG PIST(1)	05609C8	1ENG PIST(1)	05609V2
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1ENG PIST(1)	05608ME	1ENG PIST(1)	05608TE	1ENG PIST(1)	05608Z9	1ENG PIST(1)	05609EQ	1ENG PIST(1)	05609WB
1ENG PIST(1)	05608MF	1ENG PIST(1)	05608TG	1ENG PIST(1)	05608ZE	1ENG PIST(1)	05609FA	1ENG PIST(1)	05609WE
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1ENG PIST(1)	05608MV	1ENG PIST(1)	05608TY	1ENG PIST(1)	05608ZM	1ENG PIST(1)	05609HS	1ENG PIST(1)	05609XP
1ENG PIST(1)	05608MX	1ENG PIST(1)	05608UE	1ENG PIST(1)	05608ZP	1ENG PIST(1)	05609JW	1ENG PIST(1)	05609YD
1ENG PIST(1)	05608NA	1ENG PIST(1)	05608UG	1ENG PIST(1)	0560906	1ENG PIST(1)	05609KG	1ENG PIST(1)	05609YN
1ENG PIST(1)	05608NH	1ENG PIST(1)	05608UJ	1ENG PIST(1)	0560916	1ENG PIST(1)	05609KQ	1ENG PIST(1)	05609YR
1ENG PIST(1)	05608NL	1ENG PIST(1)	05608UR	1ENG PIST(1)	056091E	1ENG PIST(1)	05609LJ	1ENG PIST(1)	05609YS
1ENG PIST(1)	05608NQ	1ENG PIST(1)	05608US	1ENG PIST(1)	056091G	1ENG PIST(1)	05609LQ	1ENG PIST(1)	05609Z4
1ENG PIST(1)	05608NU	1ENG PIST(1)	05608UT	1ENG PIST(1)	056091K	1ENG PIST(1)	05609NA	1ENG PIST(1)	05609ZC
1ENG PIST(1)	05608NW	1ENG PIST(1)	05608V1	1ENG PIST(1)	056091Z	1ENG PIST(1)	05609NC	1ENG PIST(1)	05609ZG
1ENG PIST(1)	05608NY	1ENG PIST(1)	05608V4	1ENG PIST(1)	0560922	1ENG PIST(1)	05609NP	1ENG PIST(1)	05609ZJ
1ENG PIST(1)	05608PB	1ENG PIST(1)	05608V5	1ENG PIST(1)	056092C	1ENG PIST(1)	05609N4	1ENG PIST(1)	05609ZU
1ENG PIST(1)	05608PE	1ENG PIST(1)	05608V8	1ENG PIST(1)	056092K	1ENG PIST(1)	05609NH	1ENG PIST(1)	05609ZX
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1ENG PIST(1)	05608PS	1ENG PIST(1)	05608VB	1ENG PIST(1)	056093X	1ENG PIST(1)	05609NZ	1ENG PIST(1)	0561127
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1ENG PIST(1)	05608PZ	1ENG PIST(1)	05608VD	1ENG PIST(1)	056094D	1ENG PIST(1)	05609P9	1ENG PIST(1)	05611CY
1ENG PIST(1)	05608QZ	1ENG PIST(1)	05608VE	1ENG PIST(1)	056094H	1ENG PIST(1)	05609PN	1ENG PIST(1)	05611CZ
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1ENG PIST(1)	05608R8	1ENG PIST(1)	05608VH	1ENG PIST(1)	0560959	1ENG PIST(1)	05609QA	1ENG PIST(1)	05611DH
1ENG PIST(1)	05608RA	1ENG PIST(1)	05608W1	1ENG PIST(1)	056095H	1ENG PIST(1)	05609QE	1ENG PIST(1)	05611DL
1ENG PIST(1)	05608RD	1ENG PIST(1)	05608W2	1ENG PIST(1)	056095Q	1ENG PIST(1)	05609QU	1ENG PIST(1)	05611F9
1ENG PIST(1)	05608RF	1ENG PIST(1)	05608W8	1ENG PIST(1)	056096G	1ENG PIST(1)	05609R4	1ENG PIST(1)	05611FX
1ENG PIST(1)	05608RG	1ENG PIST(1)	05608WA	1ENG PIST(1)	056096V	1ENG PIST(1)	05609RE	1ENG PIST(1)	05611GE
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1ENG PIST(1)	05608RM	1ENG PIST(1)	05608WH	1ENG PIST(1)	056097K	1ENG PIST(1)	05609S4	1ENG PIST(1)	05611HR
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1ENG PIST(1)	05608SD	1ENG PIST(1)	05608WQ	1ENG PIST(1)	056098W	1ENG PIST(1)	05609U3	1ENG PIST(1)	056121B
1ENG PIST(1)	05608SE	1ENG PIST(1)	05608WU	1ENG PIST(1)	056098Z	1ENG PIST(1)	05609UG	1ENG PIST(1)	056121J
1ENG PIST(1)	05608SF	1ENG PIST(1)	05608WV	1ENG PIST(1)	0560993	1ENG PIST(1)	05609UJ	1ENG PIST(1)	056121L
1ENG PIST(1)	05608SP	1ENG PIST(1)	05608WY	1ENG PIST(1)	0560996	1ENG PIST(1)	05609UK	1ENG PIST(1)	056121N
									0561229

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
1ENG PIST(1)	056122A	1ENG PIST(1)	056128B	1ENG PIST(1)	05612NA	1ENG PIST(1)	05612XE	1ENG PIST(1)	05613AM
1ENG PIST(1)	056122J	1ENG PIST(1)	056128G	1ENG PIST(1)	05612NE	1ENG PIST(1)	05612XL	1ENG PIST(1)	05613AW
1ENG PIST(1)	056122N	1ENG PIST(1)	056128P	1ENG PIST(1)	05612NM	1ENG PIST(1)	05612XN	1ENG PIST(1)	05613AX
1ENG PIST(1)	056122T	1ENG PIST(1)	056128Q	1ENG PIST(1)	05612NZ	1ENG PIST(1)	05612XP	1ENG PIST(1)	05613B1
1ENG PIST(1)	056122Y	1ENG PIST(1)	056128T	1ENG PIST(1)	05612PG	1ENG PIST(1)	05612XR	1ENG PIST(1)	05613BC
1ENG PIST(1)	0561236	1ENG PIST(1)	05612CA	1ENG PIST(1)	05612PP	1ENG PIST(1)	05612XS	1ENG PIST(1)	05613BM
1ENG PIST(1)	0561239	1ENG PIST(1)	05612CF	1ENG PIST(1)	05612PW	1ENG PIST(1)	05612XT	1ENG PIST(1)	05613BU
1ENG PIST(1)	056123G	1ENG PIST(1)	05612CN	1ENG PIST(1)	05612PY	1ENG PIST(1)	05612YK	1ENG PIST(1)	05613BU
1ENG PIST(1)	056123J	1ENG PIST(1)	05612DQ	1ENG PIST(1)	05612QA	1ENG PIST(1)	05612YM	1ENG PIST(1)	05613BX
1ENG PIST(1)	0561242	1ENG PIST(1)	05612DS	1ENG PIST(1)	05612QE	1ENG PIST(1)	05612ZB	1ENG PIST(1)	05613C4
1ENG PIST(1)	056124T	1ENG PIST(1)	05612DY	1ENG PIST(1)	05612QG	1ENG PIST(1)	05612ZD	1ENG PIST(1)	05613CJ
1ENG PIST(1)	0561251	1ENG PIST(1)	05612DZ	1ENG PIST(1)	05612QR	1ENG PIST(1)	05612ZV	1ENG PIST(1)	05613CP
1ENG PIST(1)	0561252	1ENG PIST(1)	05612EA	1ENG PIST(1)	05612QW	1ENG PIST(1)	0561329	1ENG PIST(1)	05613DP
1ENG PIST(1)	0561255	1ENG PIST(1)	05612EF	1ENG PIST(1)	05612QX	1ENG PIST(1)	056132J	1ENG PIST(1)	05613DR
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1ENG PIST(1)	056125S	1ENG PIST(1)	05612FR	1ENG PIST(1)	05612RH	1ENG PIST(1)	056135G	1ENG PIST(1)	05613EC
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1ENG PIST(1)	056126H	1ENG PIST(1)	05612JX	1ENG PIST(1)	05612SX	1ENG PIST(1)	056136H	1ENG PIST(1)	05613FY
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APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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1ENG PIST(1)	05613SM	1ENG PIST(1)	05614AB	1ENG PIST(1)	0561663	1ENG PIST(1)	05616AQ	1ENG PIST(1)	05616H3
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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES[illegible]

APPENDIX B

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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1ENG PIST(1)	0563633	1ENG PIST(1)	05644DQ	1ENG PIST(1)	05644QL	1ENG PIST(1)	05644V7	1ENG PIST(1)	05645GR	1ENG PIST(1)	05645GR
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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1ENG PIST(1)	6290201	1ENG PIST(1)	6480134	1ENG PIST(1)	704031Z	1ENG PIST(1)	7100508	1ENG PIST(1)	7220691	1ENG PIST(1)	7220691	1ENG PIST(1)	7220691
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1ENG PIST(1)	6380854	1ENG PIST(1)	6790102	1ENG PIST(1)	704032H	1ENG PIST(1)	7102004	1ENG PIST(1)	7220695	1ENG PIST(1)	7220695	1ENG PIST(1)	7220695
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1ENG PIST(1)	6383204	1ENG PIST(1)	6840102	1ENG PIST(1)	704032N	1ENG PIST(1)	7140107	1ENG PIST(1)	7220697	1ENG PIST(1)	7220697	1ENG PIST(1)	7220697
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1ENG PIST(1)	6402315	1ENG PIST(1)	7040236	1ENG PIST(1)	7070104	1ENG PIST(1)	72202ZH	1ENG PIST(1)	7220717	1ENG PIST(1)	7220717	1ENG PIST(1)	7220717
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1ENG PIST(1)	6402323	1ENG PIST(1)	7040263	1ENG PIST(1)	7100302	1ENG PIST(1)	7220404	1ENG PIST(1)	7220722	1ENG PIST(1)	7220722	1ENG PIST(1)	7220722
1ENG PIST(1)	64023AA	1ENG PIST(1)	7040267	1ENG PIST(1)	7100303	1ENG PIST(1)	7220450	1ENG PIST(1)	7220723	1ENG PIST(1)	7220723	1ENG PIST(1)	7220723
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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1ENG PIST(1)	8058057	1ENG PIST(1)	8630114	1ENG PIST(1)	86603CP	1ENG PIST(1)	8730208	1ENG PIST(1)	89510J4
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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1ENG PIST(2)	056162J	1ENG PIST(2)	05620C	1ENG PIST(2)	05624AH	1ENG PIST(2)	11304E8	1ENG PIST(2)	4300302
1ENG PIST(2)	0561657	1ENG PIST(2)	05620HA	1ENG PIST(2)	05624B4	1ENG PIST(2)	11304F2	1ENG PIST(2)	4690101
1ENG PIST(2)	056166J	1ENG PIST(2)	05620HE	1ENG PIST(2)	05624CZ	1ENG PIST(2)	11304F9	1ENG PIST(2)	4690302
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1ENG PIST(2)	8631102	1ENG PIST(2)	95708E	1ENG TURB(6)	957088Y	2ENG PIST(3)	3020525	2ENG PIST(3)	9220102	2ENG PIST(3)	9220102
1ENG PIST(2)	8631108	1ENG PIST(2)	95708EW	1ENG TURB(6)	957088C	2ENG PIST(3)	3020526	2ENG PIST(3)	9230602	2ENG PIST(3)	9230602
1ENG PIST(2)	8631112	1ENG PIST(2)	95708FB	1ENG TURB(6)	95708DL	2ENG PIST(3)	3020702	2ENG PIST(3)	9230604	2ENG PIST(3)	9230604
1ENG PIST(2)	8631202	1ENG PIST(2)	95708FG	1ENG TURB(6)	95708FU	2ENG PIST(3)	3340104	2ENG PIST(3)	9230606	2ENG PIST(3)	9230606
1ENG PIST(2)	8631204	1ENG PIST(2)	9670102	1ENG TURB(6)	9630604	2ENG PIST(3)	3340106	2ENG PIST(3)	9230608	2ENG PIST(3)	9230608
1ENG PIST(2)	8631304	1ENG PIST(2)	9720209	2ENG PIST(3)	0141202	2ENG PIST(3)	3950405	2ENG PIST(3)	9230612	2ENG PIST(3)	9230612
1ENG PIST(2)	8631306	1ENG PIST(2)	9950102	2ENG PIST(3)	0141802	2ENG PIST(3)	3950704	2ENG PIST(3)	9690302	2ENG PIST(3)	9690302
1ENG PIST(2)	8631404	1ENG TURB(6)	0390306	2ENG PIST(3)	05612A1	2ENG PIST(3)	3951004	2ENG PIST(3)	1121224	2ENG PIST(3)	1121224
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1ENG PIST(2)	8631412	1ENG TURB(6)	05613Q5	2ENG PIST(3)	05613YH	2ENG PIST(3)	3951007	2ENG PIST(3)	1152801	2ENG PIST(3)	1152801
1ENG PIST(2)	8631416	1ENG TURB(6)	05616NB	2ENG PIST(3)	0561612	2ENG PIST(3)	3951008	2ENG PIST(3)	1152804	2ENG PIST(3)	1152804
1ENG PIST(2)	8631502	1ENG TURB(6)	05616RZ	2ENG PIST(3)	05616CP	2ENG PIST(3)	3951013	2ENG PIST(3)	1900303	2ENG PIST(3)	1900303
1ENG PIST(2)	8631504	1ENG TURB(6)	05623NS	2ENG PIST(3)	0561868	2ENG PIST(3)	3951102	2ENG PIST(3)	2075901	2ENG PIST(3)	2075901
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1ENG PIST(2)	8631620	1ENG TURB(6)	2800107	2ENG PIST(3)	1100302	2ENG PIST(3)	5260201	2ENG PIST(3)	2422644	2ENG PIST(3)	2422644
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
ZENG PIST(4)	242270A	ZENG PIST(4)	3950414	ZENG TJT(10)	2730140	ZENG TURB(7)	2076017	ZENG TURB(8)	3260202
ZENG PIST(4)	2422902	ZENG PIST(4)	3951202	ZENG TJT(10)	3022036	ZENG TURB(7)	2422811	ZENG TURB(8)	3373002
ZENG PIST(4)	2422903	ZENG PIST(4)	3951216	ZENG TJT(10)	302203K	ZENG TURB(7)	3950105	ZENG TURB(8)	3373006
ZENG PIST(4)	2422904	ZENG PIST(4)	4230135	ZENG TJT(10)	3022082	ZENG TURB(7)	3950407	ZENG TURB(8)	3373008
ZENG PIST(4)	2422905	ZENG PIST(4)	4390102	ZENG TJT(10)	3023702	ZENG TURB(7)	3950408	ZENG TURB(8)	3373016
ZENG PIST(4)	2423005	ZENG PIST(4)	4460114	ZENG TJT(10)	3023703	ZENG TURB(7)	3951000	ZENG TURB(8)	3373018
ZENG PIST(4)	2423006	ZENG PIST(4)	5260104	ZENG TJT(10)	3024001	ZENG TURB(7)	3951802	ZENG TURB(8)	3373046
ZENG PIST(4)	2423006	ZENG PIST(4)	5260106	ZENG TJT(10)	3026208	ZENG TURB(7)	3951902	ZENG TURB(8)	3373050
ZENG PIST(4)	2422604	ZENG PIST(4)	5261302	ZENG TJT(10)	3372107	ZENG TURB(7)	3970404	ZENG TURB(8)	3377521
ZENG PIST(4)	2622608	ZENG PIST(4)	5261314	ZENG TJT(10)	3820103	ZENG TURB(7)	3970600	ZENG TURB(8)	3880102
ZENG PIST(4)	2622708	ZENG PIST(4)	5261402	ZENG TJT(10)	4071204	ZENG TURB(7)	5550105	ZENG TURB(8)	3880103
ZENG PIST(4)	2800302	ZENG PIST(4)	5261502	ZENG TJT(10)	4230131	ZENG TURB(7)	5550120	ZENG TURB(8)	3880104
ZENG PIST(4)	2800304	ZENG PIST(4)	5261602	ZENG TJT(10)	4230138	ZENG TURB(7)	5550120	ZENG TURB(8)	3960301
ZENG PIST(4)	2800305	ZENG PIST(4)	5261634	ZENG TJT(10)	4270202	ZENG TURB(7)	5560103	ZENG TURB(8)	4130402
ZENG PIST(4)	2800404	ZENG PIST(4)	5261640	ZENG TJT(10)	4500101	ZENG TURB(7)	6780110	ZENG TURB(8)	6380526
ZENG PIST(4)	2800406	ZENG PIST(4)	5261642	ZENG TJT(10)	5170102	ZENG TURB(7)	6780112	ZENG TURB(8)	7850100
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ZENG PIST(4)	3021461	ZENG PIST(4)	7630410	ZENG TJT(10)	5910108	ZENG TURB(8)	1500501	ZENG TURB(8)	8680806
ZENG PIST(4)	3021462	ZENG PIST(4)	7630513	ZENG TJT(10)	6400443	ZENG TURB(8)	1500502	ZENG TURB(8)	8680807
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ZENG PIST(4)	302146X	ZENG PIST(4)	05644VD	ZENG TJT(10)	6402523	ZENG TURB(8)	2410204	ZENG TURB(8)	8680207
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ZENG PIST(4)	3021474	ZENG PIST(4)	1384451	ZENG TJT(10)	7450001	ZENG TURB(8)	2422801	ZENG TURB(8)	8680615
ZENG PIST(4)	3021478	ZENG PIST(4)	138447J	ZENG TJT(10)	8680661	ZENG TURB(8)	2422804	ZENG TURB(8)	8680615
ZENG PIST(4)	3021495	ZENG PIST(4)	138448M	ZENG TURB(7)	1151007	ZENG TURB(8)	2422806	AGUSTAA109	0260112
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ZENG PIST(4)	3950404	ZENG PIST(4)	1480280	ZENG TURB(7)	1151023	ZENG TURB(8)	2992020	AIRPTSA	0144204
ZENG PIST(4)	3950406	ZENG PIST(4)	1480307	ZENG TURB(7)	1152000	ZENG TURB(8)	2992030	AIRPTSA	0144206
ZENG PIST(4)	3950409	ZENG PIST(4)	1900309	ZENG TURB(7)	2075909	ZENG TURB(8)	2995000	AIRPTSA	1850102
ZENG PIST(4)	3950410	ZENG PIST(4)	2074324	ZENG TURB(7)	207590L	ZENG TURB(8)	302147A	AIRPTSA	1850104
ZENG PIST(4)	3950412	ZENG PIST(4)	2076810	ZENG TURB(7)	2076015	ZENG TURB(8)	3260201	AIRPTSA	1850106

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
AIRPTSA	1850108	ARCTICS1A	1850212	AYRESS2	0970217	BEECH17	1150564	BEECH23	1151226
AIRPTSA	1850110	ARCTICS1A	1850216	AYRESS2	7630202	BEECH18	1150602	BEECH23	1151230
AIRPTSA	1850112	ARONCA15	0191202	AYRESS2	7630203	BEECH18	1150702	BEECH23	1151240
AIRPTSA	1850114	ARONCA15	0191204	AYRESS2	8380202	BEECH18	1150806	BEECH23	1151242
AIRPTSA	1850118	ARONCA65	0190604	AYRESS2	8380204	BEECH18	1150902	BEECH23	1151250
AIRPTSA	1850120	ARONCA65	0190606	AYRESS2	8380206	BEECH18	1150904	BEECH23	1151252
AIRPTSA	1850122	ARONCA65	0190702	AYRESS2	8380302	BEECH18	1150909	BEECH23	1151253
AIRPTSA	4570620	ARONCA65	0190710	AYRESS2	8380306	BEECH18	1150911	BEECH23	1151254
AIRPTSA	4570624	ARONCA65	0190712	AYRESS2	0970103	BEECH18	1150912	BEECH300	1152930
AIRTRCAT300	0390101	ARONCA65	0190716	AYRESS2	0970105	BEECH18	1150913	BEECH300	1152931
AIRTRCAT300	0390103	ARONCA65	0190802	AYRESS2	0970106	BEECH18	1151001	BEECH300	1152932
AIRTRCAT300	0390104	ARONCA65	0190902	AYRESS2	0970107	BEECH18	1151004	BEECH300	1152933
AIRTRCAT300	0390106	ARONCA65	0190906	AYRESS2	0970108	BEECH18	1151006	BEECH33	1151402
AIRTRCAT400	0390201	ARONCA65	0190908	AYRESS2	0970111	BEECH18	1151008	BEECH33	1151404
AIRTRCAT400	0390202	ARONCA65	0190910	AYRESS2	0970216	BEECH18	1151010	BEECH33	1151406
AIRTRCAT400	0390203	ARONCA65	0190914	BAGJETSTM	1500216	BEECH18	1151012	BEECH33	1151408
AIRTRCAT400	0390204	ARONCA65	0190920	BAGJETSTM	1500217	BEECH18	1151014	BEECH33	1151410
AIRTRCAT400	0390205	ARONCA65	0190928	BAGJETSTM	1500218	BEECH18	1151016	BEECH33	1151422
AIRTRCAT400	0390206	ARONCA65	0190922	BBAVIA11	0191102	BEECH18	1151020	BEECH33	1151423
AIRTRCAT400	0390305	ARONCA65	0190926	BBAVIA11	0191104	BEECH18	1151021	BEECH33	1151424
AIRTRCAT400	0390308	ARONCA65	0190928	BBAVIA11	0191106	BEECH18	1151022	BEECH33	1151425
AIRTRCAT400	0390401	ARONCA65	0190930	BBAVIA11	0191108	BEECH18	1151024	BEECH33	1151432
AIRTRCAT500	0390303	ARONCA65	0190932	BBAVIA11	0191112	BEECH18	1151026	BEECH33	1151434
AIRTRCAT500	0390304	ARONCA65	0191002	BBAVIA8	1220803	BEECH18	1151040	BEECH33	1151435
AMDFALC10	2730101	ARONCA65	0191006	BBAVIA8	2121001	BEECH18	1151042	BEECH35	1151502
AMDFALC20	2720302	ARONCA65	0191008	BBAVIA8	2121004	BEECH18	1151044	BEECH35	1151504
AMDFALC20	2720303	ARONCA65	0191010	BEECH100	1152915	BEECH18	1151046	BEECH35	1151506
AMDFALC20	2720304	ARONCA65	0191014	BEECH100	1152916	BEECH18	1151048	BEECH35	1151508
AMDFALC20	2720306	ARONCA65	0191016	BEECH17	1152919	BEECH18	1154161	BEECH35	1151512
AMDFALC20	2730103	ARONCA65	0190302	BEECH17	1150503	BEECH1900	1154162	BEECH35	1151514
AMDFALC20	2730104	ARONCA65	0190304	BEECH17	1150504	BEECH1900D	1152920	BEECH35	1151516
AMDFALC20	2730105	ARONCA65	0190402	BEECH17	1150508	BEECH200	1152922	BEECH35	1151518
AMDFALC20	2730107	ARONCA65	0190406	BEECH17	1150512	BEECH200	1152924	BEECH35	1151520
AMDFALC20	2730108	ARONCA65	0190504	BEECH17	1150524	BEECH200	1152926	BEECH35	1151522
AMDFALC20	2730150	AYRESS2	0143006	BEECH17	1150525	BEECH200	1152928	BEECH35	1151524
AMDFALC50	2730106	AYRESS2	0143010	BEECH17	1150530	BEECH23	1151202	BEECH35	1151526
AMDFALC50	2730160	AYRESS2	0143012	BEECH17	1150534	BEECH23	1151204	BEECH35	1151528
AMGENAG5B	3990100	AYRESS2	0143022	BEECH17	1150538	BEECH23	1151208	BEECH35	1151530
ARCTICS1A	1850202	AYRESS2	0970100	BEECH17	1150550	BEECH23	1151212	BEECH35	1151532
ARCTICS1A	1850204	AYRESS2	0970101	BEECH17	1150554	BEECH23	1151214	BEECH35	1151538
ARCTICS1A	1850206	AYRESS2	0970102	BEECH17	1150556	BEECH23	1151215	BEECH35	1151544
ARCTICS1A	1850208	AYRESS2	0970210	BEECH17	1150558	BEECH23	1151216	BEECH35	1151546

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BLANKA/BBAVI	21101PC	BOEING75	1380132	CESSNA150	2071820	CESSNA172	7530136	CESSNA182	2072732
BLANKA/BBAVI	21101PH	BOEING75	1380133	CESSNA150	2071822	CESSNA172	7530139	CESSNA182	2072733
BLANKA/BBAVI	21101PK	BOEING75	1380134	CESSNA150	2071824	CESSNA172	7530203	CESSNA182	2072734
BLANKA/BBAVI	21101PN	BOEING75	1380136	CESSNA150	2071826	CESSNA172	7530204	CESSNA182	2072735
BLANKA/BBAVI	21101PT	BOEING75	1380139	CESSNA150	2071828	CESSNA172	7530206	CESSNA182	2072736
BLANKA/BBAVI	21101PY	BOEING75	1380142	CESSNA150	2071830	CESSNA172	7530209	CESSNA182	2075802
BLANKA/BBAVI	2110301	BOEING75	1380144	CESSNA150	2071831	CESSNA172	7530210	CESSNA182	2075806
BLANKA/BBAVI	2110612	BOEING75	1380145	CESSNA150	2071835	CESSNA175	2072502	CESSNA182	2075814
BNORMB2	1520202	BOEING75	1380146	CESSNA150	2071836	CESSNA175	2072504	CESSNA182	2075816
BNORMB2	1520204	BOEING75	1380147	CESSNA150	7530110	CESSNA175	2072506	CESSNA185	2072802
BNORMB2	1520205	BOEING75	1380148	CESSNA150	7530120	CESSNA177	2072508	CESSNA185	2072804
BNORMB2	1520206	BOEING75	1380149	CESSNA150	7530129	CESSNA177	2073704	CESSNA185	2072806
BNORMB2	1520207	BOEING75	1380150	CESSNA150	7530130	CESSNA177	2073706	CESSNA185	2072808
BNORMB2	1520209	BOEING75	1380152	CESSNA150	7530132	CESSNA177	2073708	CESSNA185	2072812
BNORMB2	1520210	BOEING75	1380153	CESSNA150	7530134	CESSNA177	2073709	CESSNA185	2072816
BNORMB2	1520215	BOEING75	1380154	CESSNA170	2072302	CESSNA177	7530211	CESSNA185	2072818
BNORMB2	1520220	BOEING75	1380155	CESSNA170	2072304	CESSNA180	2072602	CESSNA185	2072820
BNORMB2	1520221	BOEING75	1380157	CESSNA170	2072306	CESSNA180	2072604	CESSNA185	2072821
BNORMB2	1520226	BOEING75	1380159	CESSNA170	2072307	CESSNA180	2072606	CESSNA188	2073002
BNORMB2	1520302	BOEING75	1380160	CESSNA172	2072202	CESSNA180	2072608	CESSNA188	2073004
BNORMB2	1520303	BOEING75	1380161	CESSNA172	2072402	CESSNA180	2072610	CESSNA188	2073005
BNORMB2	1520350	BOEING75	1385140	CESSNA172	2072404	CESSNA180	2072612	CESSNA188	2073007
BNORMB2	7080221	BOLKMS105	5626005	CESSNA172	2072406	CESSNA180	2072614	CESSNA188	2073008
BNORMB2	7080227	BOLKMS105	5626006	CESSNA172	2072408	CESSNA180	2072616	CESSNA188	2073010
BOEING75	1380102	BOLKMS105	5626008	CESSNA172	2072410	CESSNA180	2072618	CESSNA188	2073012
BOEING75	1380104	BOLKMS117	5626010	CESSNA172	2072412	CESSNA180	2072622	CESSNA190	2072902
BOEING75	1380105	BOLKMS117	5626012	CESSNA172	2072413	CESSNA180	2072624	CESSNA195	2073102
BOEING75	1380106	BOLKMS117	5626015	CESSNA172	2072414	CESSNA182	2072702	CESSNA195	2073106
BOEING75	1380107	BOLKMS117	5626017	CESSNA172	2072415	CESSNA182	2072704	CESSNA195	2073108
BOEING75	1380108	BOLKMS117	5626019	CESSNA172	2072417	CESSNA182	2072706	CESSNA195	2073110
BOEING75	1380112	BRAERODH125	1500285	CESSNA172	2072418	CESSNA182	2072708	CESSNA195	2073112
BOEING75	1380115	CESSNA120	2071402	CESSNA172	2072420	CESSNA182	2072710	CESSNA205	2073202
BOEING75	1380116	CESSNA140	2071602	CESSNA172	2072421	CESSNA182	2072712	CESSNA205	2073204
BOEING75	1380117	CESSNA140	2071604	CESSNA172	2072424	CESSNA182	2072714	CESSNA206	2073302
BOEING75	1380118	CESSNA150	2071802	CESSNA172	2072426	CESSNA182	2072715	CESSNA206	2073304
BOEING75	1380119	CESSNA150	2071804	CESSNA172	2072429	CESSNA182	2072716	CESSNA206	2073306
BOEING75	1380120	CESSNA150	2071806	CESSNA172	2072430	CESSNA182	2072718	CESSNA206	2073308
BOEING75	1380123	CESSNA150	2071808	CESSNA172	2072431	CESSNA182	2072722	CESSNA206	2073309
BOEING75	1380124	CESSNA150	2071810	CESSNA172	2072432	CESSNA182	2072724	CESSNA206	2073310
BOEING75	1380125	CESSNA150	2071812	CESSNA172	2072434	CESSNA182	2072726	CESSNA206	2073311
BOEING75	1380127	CESSNA150	2071814	CESSNA172	2072436	CESSNA182	2072728	CESSNA206	2073312
BOEING75	1380129	CESSNA150	2071816	CESSNA172	2072437	CESSNA182	2072730	CESSNA206	2073313

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
CESSNA206	2073316	CESSNA210	2073448	CESSNA310	2074224	CESSNA402	207590H	CONAERLA4	5110304
CESSNA206	2073318	CESSNA210	2073449	CESSNA310	2074226	CESSNA402	207590P	CONAERLA4	5110306
CESSNA206	2073322	CESSNA210	2073450	CESSNA310	2074228	CESSNA402	207590R	CONAERLA4	5110310
CESSNA206	2073324	CESSNA210	2073451	CESSNA310	2074230	CESSNA421	2076010	CONAERLA4	5110312
CESSNA206	2073332	CESSNA210	2073453	CESSNA310	2074234	CESSNA421	2076012	CONAERLA4	5110320
CESSNA206	2073333	CESSNA210	2073454	CESSNA310	2074238	CESSNA421	2076014	CURTISTRVAIR	2621010
CESSNA206	2073334	CESSNA210	2073455	CESSNA310	2074240	CESSNA421	2076016	CURTISTRVAIR	2621012
CESSNA206	2073338	CESSNA210	2073456	CESSNA310	2074242	CESSNA425	2076018	CURTISTRVAIR	2621304
CESSNA206	2073340	CESSNA210	2073458	CESSNA310	2074244	CESSNA441	2076020	CURTISTRVAIR	2621308
CESSNA206	2073342	CESSNA210	2073459	CESSNA310	2074245	CESSNA500	2076601	CURTISTRVAIR	2621401
CESSNA206	2073344	CESSNA303	2073803	CESSNA310	2074246	CESSNA500	2076602	CURTISTRVAIR	2621402
CESSNA206	2073346	CESSNA303	2073820	CESSNA320	2074504	CESSNA500	2076604	CURTISTRVAIR	2621404
CESSNA206	2073348	CESSNA305	2073902	CESSNA320	2074506	CESSNA500	2076606	CURTISTRVAIR	2621506
CESSNA206	2073350	CESSNA305	2074000	CESSNA320	2074508	CESSNA500	2076607	CURTISTRVAIR	2621508
CESSNA206	2073352	CESSNA305	2074001	CESSNA320	2074510	CESSNA500	2076750	CURTISTRVAIR	2621602
CESSNA206	2073353	CESSNA305	2074002	CESSNA320	2074512	CESSNA501	2076603	CURTISTRVAIR	2621604
CESSNA206	2073356	CESSNA305	2074003	CESSNA320	2074514	CESSNA501	2076605	CURTISTRVAIR	2621606
CESSNA206	2073357	CESSNA305	2074004	CESSNA320	2074516	CESSNA650	2076802	CURTISTRVAIR	2621702
CESSNA207	2073602	CESSNA305	2074005	CESSNA336	2075602	CESSNA500	2071302	CURTISTRVAIR	2621704
CESSNA207	2073604	CESSNA305	2074006	CESSNA337	2074009	CESSNA500	2071307	CURTISTRVAIR	2621804
CESSNA207	2073612	CESSNA305	2074008	CESSNA337	2075704	CESSNA500	2071308	CURTISTRVAIR	2621805
CESSNA207	2073614	CESSNA305	2074012	CESSNA337	2075706	CESSNA500	2071309	CURTISTRVAIR	2621806
CESSNA208	2073701	CESSNA305	2074014	CESSNA337	2075707	CHILD1	0110101	CURTISTRVAIR	2621808
CESSNA208	2073702	CESSNA305	2074016	CESSNA337	2075712	CHILD1	0110301	CURTISTRVAIR	2621810
CESSNA208	2073703	CESSNA305	2074018	CESSNA337	2075714	CHILD1	0110303	CURTISTRVAIR	2621814
CESSNA210	2073402	CESSNA305	2074028	CESSNA337	2075717	CHILD1	2210005	CURTISTRVAIR	2621818
CESSNA210	2073404	CESSNA305	2074030	CESSNA337	2075719	CHILD1	2210006	CURTISTRVAIR	2621820
CESSNA210	2073406	CESSNA305	2074032	CESSNA337	2075721	CHILD1	2210302	CURTISTRVAIR	2621822
CESSNA210	2073408	CESSNA305	207408E	CESSNA337	2075723	CHILD1	2210308	CURTISTRVAIR	2621824
CESSNA210	2073410	CESSNA305	207408F	CESSNA337	2075724	CHILD1	2210310	CURTISTRVAIR	2621826
CESSNA210	2073412	CESSNA305	207408K	CESSNA337	2075725	CHILD2	0110201	CURTISTRVAIR	2621830
CESSNA210	2073414	CESSNA310	2074202	CESSNA337	2075726	CHILD2	0110304	CURTISTRVAIR	2622402
CESSNA210	2073416	CESSNA310	2074204	CESSNA337	2075727	CHRISHUSKY	221020X	CVACBT/L13	2420202
CESSNA210	2073418	CESSNA310	2074206	CESSNA337	2075730	CNDATRCCL600	1900302	CVACBT/L13	2420204
CESSNA210	2073422	CESSNA310	2074207	CESSNA337	2075731	CNDATRCCL600	1900304	CVACBT/L13	2420206
CESSNA210	2073430	CESSNA310	2074208	CESSNA337	2075732	CNDATRCCL600	1900305	CVACBT/L13	2420208
CESSNA210	2073432	CESSNA310	2074210	CESSNA337	2075733	COMWTH185	2370602	CVACBT/L13	2420220
CESSNA210	2073436	CESSNA310	2074212	CESSNA340	2076404	COMWTH185	2370604	CVACBT/L13	2420221
CESSNA210	2073438	CESSNA310	2074214	CESSNA340	2076405	COMWTH185	2370608	CVACBT/L13	2420222
CESSNA210	2073439	CESSNA310	2074216	CESSNA401	207590C	CONAERLA4	2400102	CVACBT/L13	2420224
CESSNA210	2073440	CESSNA310	2074218	CESSNA401	207590D	CONAERLA4	2400108	CVACBT/L13	2420225
CESSNA210	2073446	CESSNA310	2074220	CESSNA401	207590E	CONAERLA4	2400500	CVACBT/L13	2420226
CESSNA210	2073447	CESSNA310	2074222	CESSNA402	207590K	CONAERLA4	5110302	CVACBT/L13	

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
CVACBT/L13	2420228	EAGLEBAL	3230203	EXP-EXHIBIT	05603X1	EXP-EXHIBIT	05613CU	EXP-EXHIBIT	05618ZY
CVACBT/L13	2420229	EMB110	3260122	EXP-EXHIBIT	05604KE	EXP-EXHIBIT	05613EU	EXP-EXHIBIT	0562031
CVACBT/L13	2420230	EMB110	3260124	EXP-EXHIBIT	05604MR	EXP-EXHIBIT	05613GA	EXP-EXHIBIT	0562032
CVACBT/L13	2420302	ENSTRMF28	33000406	EXP-EXHIBIT	05604T7	EXP-EXHIBIT	05613J9	EXP-EXHIBIT	05620CR
CVACBT/L13	2420312	ENSTRMF28	33000407	EXP-EXHIBIT	05604T8	EXP-EXHIBIT	05613L3	EXP-EXHIBIT	05620JU
CVACBT/L13	2420702	ENSTRMF28	33000412	EXP-EXHIBIT	05604T9	EXP-EXHIBIT	05613LT	EXP-EXHIBIT	05620QP
CVACBT/L13	2420704	ENSTRMF28	33000550	EXP-EXHIBIT	05604UD	EXP-EXHIBIT	05613QY	EXP-EXHIBIT	05620RN
CVACBT/L13	2420706	ENSTRMF28	33000502	EXP-EXHIBIT	05604UG	EXP-EXHIBIT	05613RX	EXP-EXHIBIT	05620SZ
DHAVDH82	2801000	ENSTRMF28	33000505	EXP-EXHIBIT	05604UJ	EXP-EXHIBIT	05613TN	EXP-EXHIBIT	05620TT
DHAVDH82	2801002	ENSTRMF28	33000506	EXP-EXHIBIT	05604UK	EXP-EXHIBIT	05613W6	EXP-EXHIBIT	05620YP
DHAVDH82	2801003	ENSTRMF28	33000510	EXP-EXHIBIT	0560803	EXP-EXHIBIT	0561614	EXP-EXHIBIT	0562111
DHAVDH82	2801002	EXP-EXHIBIT	003011L	EXP-EXHIBIT	0560803	EXP-EXHIBIT	056162L	EXP-EXHIBIT	0562131
DHAVDH82	2801004	EXP-EXHIBIT	0090100	EXP-EXHIBIT	0560847	EXP-EXHIBIT	056166A	EXP-EXHIBIT	0562218
DHAVDH82	2801005	EXP-EXHIBIT	0110100	EXP-EXHIBIT	05608J2	EXP-EXHIBIT	0561681	EXP-EXHIBIT	056223T
DHAVDH82	2801006	EXP-EXHIBIT	0130102	EXP-EXHIBIT	0560915	EXP-EXHIBIT	0561699	EXP-EXHIBIT	056227T
DHAVDH82	2801008	EXP-EXHIBIT	0140314	EXP-EXHIBIT	05609CJ	EXP-EXHIBIT	05616CV	EXP-EXHIBIT	05622AM
DHAVDH82	2801109	EXP-EXHIBIT	0170102	EXP-EXHIBIT	05609TH	EXP-EXHIBIT	05616F6	EXP-EXHIBIT	0562373
DHAVDH82	2801115	EXP-EXHIBIT	0400104	EXP-EXHIBIT	05611AE	EXP-EXHIBIT	05616FC	EXP-EXHIBIT	05623AS
DHAVDH82	2801830	EXP-EXHIBIT	0550201	EXP-EXHIBIT	05611B1	EXP-EXHIBIT	05616GS	EXP-EXHIBIT	05623CL
DHAVDH82	2804003	EXP-EXHIBIT	0560148	EXP-EXHIBIT	05611EP	EXP-EXHIBIT	05616MF	EXP-EXHIBIT	05623D2
DHAVDH82	2805001	EXP-EXHIBIT	0560169	EXP-EXHIBIT	05611GB	EXP-EXHIBIT	05616MM	EXP-EXHIBIT	05623EW
DHAVDH82	2805002	EXP-EXHIBIT	056016V	EXP-EXHIBIT	056125P	EXP-EXHIBIT	05616XQ	EXP-EXHIBIT	05623H7
DHAVDH82	2806001	EXP-EXHIBIT	056018P	EXP-EXHIBIT	056125Q	EXP-EXHIBIT	05616U2	EXP-EXHIBIT	05623MT
DHAVDH82	2807001	EXP-EXHIBIT	05601BD	EXP-EXHIBIT	056127W	EXP-EXHIBIT	05616XQ	EXP-EXHIBIT	05623VY
DHAVDH82	2808001	EXP-EXHIBIT	05601D3	EXP-EXHIBIT	056127Z	EXP-EXHIBIT	0561815	EXP-EXHIBIT	0562445
DHAVDH82	2808002	EXP-EXHIBIT	05601HR	EXP-EXHIBIT	056128C	EXP-EXHIBIT	056182T	EXP-EXHIBIT	056248M
DHAVDH82	2802606	EXP-EXHIBIT	05601J8	EXP-EXHIBIT	056129S	EXP-EXHIBIT	056184K	EXP-EXHIBIT	0562777
DHAVDH82	2802610	EXP-EXHIBIT	05601L7	EXP-EXHIBIT	05612BR	EXP-EXHIBIT	056185V	EXP-EXHIBIT	0563723
DHAVDH82	2802620	EXP-EXHIBIT	05601LB	EXP-EXHIBIT	05612FV	EXP-EXHIBIT	056187P	EXP-EXHIBIT	0563730
DHAVDH82	2802630	EXP-EXHIBIT	05601LX	EXP-EXHIBIT	05612HJ	EXP-EXHIBIT	0561883	EXP-EXHIBIT	0563733
DOUGDC3	3021401	EXP-EXHIBIT	05601NG	EXP-EXHIBIT	05612KL	EXP-EXHIBIT	05618AM	EXP-EXHIBIT	0563735
DOUGDC3	3021404	EXP-EXHIBIT	05601TD	EXP-EXHIBIT	05612PJ	EXP-EXHIBIT	05618BJ	EXP-EXHIBIT	0563744
DOUGDC3	3021424	EXP-EXHIBIT	05601VG	EXP-EXHIBIT	05612RB	EXP-EXHIBIT	05618J2	EXP-EXHIBIT	0563753
DOUGDC3	3021433	EXP-EXHIBIT	05601XY	EXP-EXHIBIT	05612UW	EXP-EXHIBIT	05618KQ	EXP-EXHIBIT	0563783
DOUGDC3	3021436	EXP-EXHIBIT	05601Y7	EXP-EXHIBIT	05612WR	EXP-EXHIBIT	05618LF	EXP-EXHIBIT	05637B1
DOUGDC3	3021440	EXP-EXHIBIT	05601ZJ	EXP-EXHIBIT	05612WS	EXP-EXHIBIT	05618NE	EXP-EXHIBIT	05637BS
DOUGDC3	3021454	EXP-EXHIBIT	05602T5	EXP-EXHIBIT	056132E	EXP-EXHIBIT	05618P1	EXP-EXHIBIT	05637C2
DOUGDC3	3021457	EXP-EXHIBIT	0560310	EXP-EXHIBIT	056132Y	EXP-EXHIBIT	05618W	EXP-EXHIBIT	05637C4
DOUGDC3	3021458	EXP-EXHIBIT	0560342	EXP-EXHIBIT	056135F	EXP-EXHIBIT	05618X	EXP-EXHIBIT	05637CY
DOUGDC3	302147F	EXP-EXHIBIT	056035N	EXP-EXHIBIT	056138A	EXP-EXHIBIT	05618Z1	EXP-EXHIBIT	05637D1
DOUGDC3	3021481	EXP-EXHIBIT	05603H2	EXP-EXHIBIT	0561384	EXP-EXHIBIT	05618Z2	EXP-EXHIBIT	05637EG
EAGLEBAL	3230202	EXP-EXHIBIT	05603KD	EXP-EXHIBIT	05613CK	EXP-EXHIBIT	05618Z6	EXP-EXHIBIT	05637F2

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-EXHIBIT	05637G2	EXP-EXHIBIT	0566196	EXP-EXHIBIT	0764606	EXP-EXHIBIT	13027KX	EXP-EXHIBIT	2075702
EXP-EXHIBIT	05637H5	EXP-EXHIBIT	0566212	EXP-EXHIBIT	0770104	EXP-EXHIBIT	1360309	EXP-EXHIBIT	2152204
EXP-EXHIBIT	05637J5	EXP-EXHIBIT	0566316	EXP-EXHIBIT	0780124	EXP-EXHIBIT	1380301	EXP-EXHIBIT	2152208
EXP-EXHIBIT	05637K7	EXP-EXHIBIT	0566330	EXP-EXHIBIT	0780128	EXP-EXHIBIT	1380302	EXP-EXHIBIT	2152610
EXP-EXHIBIT	05637K8	EXP-EXHIBIT	0566354	EXP-EXHIBIT	0780136	EXP-EXHIBIT	1380401	EXP-EXHIBIT	2210002
EXP-EXHIBIT	05637N3	EXP-EXHIBIT	05663AK	EXP-EXHIBIT	0840110	EXP-EXHIBIT	1380702	EXP-EXHIBIT	2230102
EXP-EXHIBIT	05637P7	EXP-EXHIBIT	05663AM	EXP-EXHIBIT	0860406	EXP-EXHIBIT	1382402	EXP-EXHIBIT	2300095
EXP-EXHIBIT	05637T1	EXP-EXHIBIT	05663BK	EXP-EXHIBIT	0881210	EXP-EXHIBIT	1382602	EXP-EXHIBIT	2300105
EXP-EXHIBIT	05637T3	EXP-EXHIBIT	05663BP	EXP-EXHIBIT	0900106	EXP-EXHIBIT	1384873	EXP-EXHIBIT	2301202
EXP-EXHIBIT	0564008	EXP-EXHIBIT	05663BU	EXP-EXHIBIT	0941012	EXP-EXHIBIT	1590100	EXP-EXHIBIT	2301205
EXP-EXHIBIT	0564012	EXP-EXHIBIT	0566460	EXP-EXHIBIT	0950103	EXP-EXHIBIT	1590104	EXP-EXHIBIT	2301206
EXP-EXHIBIT	0564303	EXP-EXHIBIT	05670AA	EXP-EXHIBIT	0950120	EXP-EXHIBIT	1590106	EXP-EXHIBIT	2371412
EXP-EXHIBIT	0564309	EXP-EXHIBIT	056752V	EXP-EXHIBIT	0950130	EXP-EXHIBIT	1590107	EXP-EXHIBIT	2410100
EXP-EXHIBIT	05644PF	EXP-EXHIBIT	0567530	EXP-EXHIBIT	1050103	EXP-EXHIBIT	1590111	EXP-EXHIBIT	2410101
EXP-EXHIBIT	05644PN	EXP-EXHIBIT	0567558	EXP-EXHIBIT	1050104	EXP-EXHIBIT	1590114	EXP-EXHIBIT	2410102
EXP-EXHIBIT	05644TU	EXP-EXHIBIT	056755P	EXP-EXHIBIT	1130517	EXP-EXHIBIT	1590118	EXP-EXHIBIT	2410103
EXP-EXHIBIT	0564586	EXP-EXHIBIT	056756U	EXP-EXHIBIT	1130733	EXP-EXHIBIT	1590120	EXP-EXHIBIT	2410105
EXP-EXHIBIT	05645AY	EXP-EXHIBIT	056759U	EXP-EXHIBIT	11307Q6	EXP-EXHIBIT	1590124	EXP-EXHIBIT	2420705
EXP-EXHIBIT	05645DE	EXP-EXHIBIT	05675CB	EXP-EXHIBIT	1130811	EXP-EXHIBIT	1590312	EXP-EXHIBIT	2422104
EXP-EXHIBIT	0564718	EXP-EXHIBIT	05675DG	EXP-EXHIBIT	1130830	EXP-EXHIBIT	1590324	EXP-EXHIBIT	2422502
EXP-EXHIBIT	0564733	EXP-EXHIBIT	05675G8	EXP-EXHIBIT	1130838	EXP-EXHIBIT	1590326	EXP-EXHIBIT	2620602
EXP-EXHIBIT	056473M	EXP-EXHIBIT	05675K2	EXP-EXHIBIT	1130839	EXP-EXHIBIT	1590336	EXP-EXHIBIT	2620604
EXP-EXHIBIT	056473A	EXP-EXHIBIT	05675PU	EXP-EXHIBIT	1130864	EXP-EXHIBIT	1660205	EXP-EXHIBIT	2621302
EXP-EXHIBIT	056475A	EXP-EXHIBIT	0567611	EXP-EXHIBIT	1130864	EXP-EXHIBIT	1660302	EXP-EXHIBIT	2622203
EXP-EXHIBIT	0564788	EXP-EXHIBIT	05676AZ	EXP-EXHIBIT	1180102	EXP-EXHIBIT	1660306	EXP-EXHIBIT	2624020
EXP-EXHIBIT	05647K8	EXP-EXHIBIT	05676EQ	EXP-EXHIBIT	118020K	EXP-EXHIBIT	1660402	EXP-EXHIBIT	2630102
EXP-EXHIBIT	05647NY	EXP-EXHIBIT	05676KQ	EXP-EXHIBIT	118020L	EXP-EXHIBIT	1690478	EXP-EXHIBIT	2800421
EXP-EXHIBIT	05647QF	EXP-EXHIBIT	05676L3	EXP-EXHIBIT	1181021	EXP-EXHIBIT	1720102	EXP-EXHIBIT	2800422
EXP-EXHIBIT	05647Z9	EXP-EXHIBIT	05676R1	EXP-EXHIBIT	1181411	EXP-EXHIBIT	1880101	EXP-EXHIBIT	2801001
EXP-EXHIBIT	0565032	EXP-EXHIBIT	05691DK	EXP-EXHIBIT	1181902	EXP-EXHIBIT	1880109	EXP-EXHIBIT	2801006
EXP-EXHIBIT	0565345	EXP-EXHIBIT	0650108	EXP-EXHIBIT	1181904	EXP-EXHIBIT	1880114	EXP-EXHIBIT	2801006
EXP-EXHIBIT	0565373	EXP-EXHIBIT	0760724	EXP-EXHIBIT	1200402	EXP-EXHIBIT	1880123	EXP-EXHIBIT	2801013
EXP-EXHIBIT	0565383	EXP-EXHIBIT	0760728	EXP-EXHIBIT	1240104	EXP-EXHIBIT	1880268	EXP-EXHIBIT	2801014
EXP-EXHIBIT	05655CW	EXP-EXHIBIT	0760730	EXP-EXHIBIT	130013W	EXP-EXHIBIT	1900822	EXP-EXHIBIT	2801015
EXP-EXHIBIT	0565730	EXP-EXHIBIT	0760743	EXP-EXHIBIT	130016L	EXP-EXHIBIT	1922828	EXP-EXHIBIT	2801016
EXP-EXHIBIT	0565816	EXP-EXHIBIT	0760744	EXP-EXHIBIT	130079A	EXP-EXHIBIT	1922841	EXP-EXHIBIT	2801018
EXP-EXHIBIT	0565824	EXP-EXHIBIT	0760756	EXP-EXHIBIT	13021QA	EXP-EXHIBIT	19704x7	EXP-EXHIBIT	2801502
EXP-EXHIBIT	0565875	EXP-EXHIBIT	0760825	EXP-EXHIBIT	1302641	EXP-EXHIBIT	1990102	EXP-EXHIBIT	2801512
EXP-EXHIBIT	0565876	EXP-EXHIBIT	0761150	EXP-EXHIBIT	1302774	EXP-EXHIBIT	1990103	EXP-EXHIBIT	2801513
EXP-EXHIBIT	056593Q	EXP-EXHIBIT	0761156	EXP-EXHIBIT	1302792	EXP-EXHIBIT	1990105	EXP-EXHIBIT	2801702
EXP-EXHIBIT	0566034	EXP-EXHIBIT	0761549	EXP-EXHIBIT	13027GZ	EXP-EXHIBIT	1990201	EXP-EXHIBIT	2801704
EXP-EXHIBIT	0566037	EXP-EXHIBIT	0761574	EXP-EXHIBIT	13027HV	EXP-EXHIBIT	2074007	EXP-EXHIBIT	2801706
EXP-EXHIBIT		EXP-EXHIBIT	0761579	EXP-EXHIBIT	13027KJ	EXP-EXHIBIT	2074322	EXP-EXHIBIT	2801710

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-EXHIBIT	2801712	EXP-EXHIBIT	3630315	EXP-EXHIBIT	38015GW	EXP-EXHIBIT	3951003	EXP-EXHIBIT	5760207	EXP-EXHIBIT	5760207
EXP-EXHIBIT	2801714	EXP-EXHIBIT	3630330	EXP-EXHIBIT	38015GZ	EXP-EXHIBIT	3951011	EXP-EXHIBIT	5780500	EXP-EXHIBIT	5780500
EXP-EXHIBIT	2801716	EXP-EXHIBIT	3630335	EXP-EXHIBIT	38015HR	EXP-EXHIBIT	3951014	EXP-EXHIBIT	5810110	EXP-EXHIBIT	5810110
EXP-EXHIBIT	2801736	EXP-EXHIBIT	3630387	EXP-EXHIBIT	3801923	EXP-EXHIBIT	4000102	EXP-EXHIBIT	5810204	EXP-EXHIBIT	5810204
EXP-EXHIBIT	2801738	EXP-EXHIBIT	3630914	EXP-EXHIBIT	3801925	EXP-EXHIBIT	4220102	EXP-EXHIBIT	5910204	EXP-EXHIBIT	5910204
EXP-EXHIBIT	2801739	EXP-EXHIBIT	3630949	EXP-EXHIBIT	3801950	EXP-EXHIBIT	4220119	EXP-EXHIBIT	5910310	EXP-EXHIBIT	5910310
EXP-EXHIBIT	2801741	EXP-EXHIBIT	3630959	EXP-EXHIBIT	3801952	EXP-EXHIBIT	4230103	EXP-EXHIBIT	5910311	EXP-EXHIBIT	5910311
EXP-EXHIBIT	2801742	EXP-EXHIBIT	3630964	EXP-EXHIBIT	3801954	EXP-EXHIBIT	4230122	EXP-EXHIBIT	5910315	EXP-EXHIBIT	5910315
EXP-EXHIBIT	2801745	EXP-EXHIBIT	3631067	EXP-EXHIBIT	3801960	EXP-EXHIBIT	4230306	EXP-EXHIBIT	5910399	EXP-EXHIBIT	5910399
EXP-EXHIBIT	2802203	EXP-EXHIBIT	3631079	EXP-EXHIBIT	38019V0	EXP-EXHIBIT	4240126	EXP-EXHIBIT	5910401	EXP-EXHIBIT	5910401
EXP-EXHIBIT	2804001	EXP-EXHIBIT	3650100	EXP-EXHIBIT	38019VG	EXP-EXHIBIT	4250102	EXP-EXHIBIT	5910402	EXP-EXHIBIT	5910402
EXP-EXHIBIT	2804004	EXP-EXHIBIT	3650101	EXP-EXHIBIT	38019VJ	EXP-EXHIBIT	4260125	EXP-EXHIBIT	5910600	EXP-EXHIBIT	5910600
EXP-EXHIBIT	2935102	EXP-EXHIBIT	3690102	EXP-EXHIBIT	38019VN	EXP-EXHIBIT	4270102	EXP-EXHIBIT	5920101	EXP-EXHIBIT	5920101
EXP-EXHIBIT	2990602	EXP-EXHIBIT	3760102	EXP-EXHIBIT	38019VS	EXP-EXHIBIT	4280300	EXP-EXHIBIT	5920102	EXP-EXHIBIT	5920102
EXP-EXHIBIT	2990616	EXP-EXHIBIT	3800266	EXP-EXHIBIT	3802006	EXP-EXHIBIT	4310102	EXP-EXHIBIT	5920103	EXP-EXHIBIT	5920103
EXP-EXHIBIT	2990701	EXP-EXHIBIT	3800310	EXP-EXHIBIT	3802009	EXP-EXHIBIT	4380102	EXP-EXHIBIT	5920114	EXP-EXHIBIT	5920114
EXP-EXHIBIT	2990704	EXP-EXHIBIT	3800335	EXP-EXHIBIT	3802050	EXP-EXHIBIT	4380105	EXP-EXHIBIT	5920202	EXP-EXHIBIT	5920202
EXP-EXHIBIT	2990721	EXP-EXHIBIT	3800339	EXP-EXHIBIT	3802052	EXP-EXHIBIT	4380116	EXP-EXHIBIT	5920205	EXP-EXHIBIT	5920205
EXP-EXHIBIT	2990725	EXP-EXHIBIT	3800341	EXP-EXHIBIT	3802055	EXP-EXHIBIT	4380115	EXP-EXHIBIT	5920206	EXP-EXHIBIT	5920206
EXP-EXHIBIT	2999006	EXP-EXHIBIT	3800347	EXP-EXHIBIT	3802061	EXP-EXHIBIT	4460166	EXP-EXHIBIT	5980102	EXP-EXHIBIT	5980102
EXP-EXHIBIT	2999100	EXP-EXHIBIT	3800517	EXP-EXHIBIT	3802066	EXP-EXHIBIT	4490104	EXP-EXHIBIT	6250223	EXP-EXHIBIT	6250223
EXP-EXHIBIT	3020515	EXP-EXHIBIT	3800601	EXP-EXHIBIT	3802506	EXP-EXHIBIT	4490112	EXP-EXHIBIT	6380102	EXP-EXHIBIT	6380102
EXP-EXHIBIT	3021009	EXP-EXHIBIT	3801048	EXP-EXHIBIT	3802507	EXP-EXHIBIT	4670101	EXP-EXHIBIT	6380108	EXP-EXHIBIT	6380108
EXP-EXHIBIT	3026004	EXP-EXHIBIT	3801188	EXP-EXHIBIT	3802550	EXP-EXHIBIT	4690620	EXP-EXHIBIT	6383005	EXP-EXHIBIT	6383005
EXP-EXHIBIT	3026010	EXP-EXHIBIT	3801206	EXP-EXHIBIT	3802552	EXP-EXHIBIT	4740408	EXP-EXHIBIT	6383202	EXP-EXHIBIT	6383202
EXP-EXHIBIT	3026012	EXP-EXHIBIT	3801208	EXP-EXHIBIT	3850100	EXP-EXHIBIT	4761506	EXP-EXHIBIT	6400104	EXP-EXHIBIT	6400104
EXP-EXHIBIT	3026202	EXP-EXHIBIT	3801213	EXP-EXHIBIT	3870148	EXP-EXHIBIT	4920104	EXP-EXHIBIT	6400403	EXP-EXHIBIT	6400403
EXP-EXHIBIT	3027373	EXP-EXHIBIT	3801214	EXP-EXHIBIT	3870162	EXP-EXHIBIT	5100202	EXP-EXHIBIT	6400406	EXP-EXHIBIT	6400406
EXP-EXHIBIT	3160602	EXP-EXHIBIT	3801261	EXP-EXHIBIT	3870512	EXP-EXHIBIT	5200102	EXP-EXHIBIT	6400410	EXP-EXHIBIT	6400410
EXP-EXHIBIT	3240301	EXP-EXHIBIT	3801262	EXP-EXHIBIT	3880110	EXP-EXHIBIT	5220202	EXP-EXHIBIT	640041A	EXP-EXHIBIT	640041A
EXP-EXHIBIT	3360325	EXP-EXHIBIT	3801263	EXP-EXHIBIT	3910112	EXP-EXHIBIT	5260204	EXP-EXHIBIT	6400427	EXP-EXHIBIT	6400427
EXP-EXHIBIT	3371808	EXP-EXHIBIT	3801264	EXP-EXHIBIT	3910242	EXP-EXHIBIT	5260216	EXP-EXHIBIT	6400430	EXP-EXHIBIT	6400430
EXP-EXHIBIT	3420100	EXP-EXHIBIT	3801322	EXP-EXHIBIT	3950103	EXP-EXHIBIT	5260406	EXP-EXHIBIT	6400431	EXP-EXHIBIT	6400431
EXP-EXHIBIT	3440101	EXP-EXHIBIT	3801324	EXP-EXHIBIT	3950106	EXP-EXHIBIT	5260412	EXP-EXHIBIT	6400441	EXP-EXHIBIT	6400441
EXP-EXHIBIT	3450412	EXP-EXHIBIT	380135X	EXP-EXHIBIT	3950411	EXP-EXHIBIT	5260414	EXP-EXHIBIT	6400442	EXP-EXHIBIT	6400442
EXP-EXHIBIT	3540102	EXP-EXHIBIT	3801379	EXP-EXHIBIT	3950506	EXP-EXHIBIT	5262008	EXP-EXHIBIT	6400455	EXP-EXHIBIT	6400455
EXP-EXHIBIT	3540106	EXP-EXHIBIT	3801502	EXP-EXHIBIT	3950608	EXP-EXHIBIT	5269502	EXP-EXHIBIT	6400705	EXP-EXHIBIT	6400705
EXP-EXHIBIT	3550101	EXP-EXHIBIT	3801503	EXP-EXHIBIT	3950614	EXP-EXHIBIT	5269601	EXP-EXHIBIT	6401522	EXP-EXHIBIT	6401522
EXP-EXHIBIT	3550102	EXP-EXHIBIT	3801504	EXP-EXHIBIT	3950696	EXP-EXHIBIT	5450102	EXP-EXHIBIT	6401714	EXP-EXHIBIT	6401714
EXP-EXHIBIT	3550808	EXP-EXHIBIT	3801506	EXP-EXHIBIT	3950802	EXP-EXHIBIT	5451001	EXP-EXHIBIT	6401715	EXP-EXHIBIT	6401715
EXP-EXHIBIT	3630215	EXP-EXHIBIT	3801511	EXP-EXHIBIT	3950902	EXP-EXHIBIT	5600504	EXP-EXHIBIT	6402202	EXP-EXHIBIT	6402202
EXP-EXHIBIT	3630225	EXP-EXHIBIT	3801512	EXP-EXHIBIT	3950905	EXP-EXHIBIT	5621004	EXP-EXHIBIT	6402301	EXP-EXHIBIT	6402301
EXP-EXHIBIT	3630235	EXP-EXHIBIT	3801537	EXP-EXHIBIT	3951002	EXP-EXHIBIT	5740102	EXP-EXHIBIT	6402302	EXP-EXHIBIT	6402302

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AIRCRAFT GROUP NAME
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	0030402	EXP-HOME BLT	0030516	EXP-HOME BLT	056011S	EXP-HOME BLT	056015T	EXP-HOME BLT	056018J
EXP-HOME BLT	0030403	EXP-HOME BLT	0030517	EXP-HOME BLT	056011X	EXP-HOME BLT	056015Z	EXP-HOME BLT	056018M
EXP-HOME BLT	0030405	EXP-HOME BLT	0030518	EXP-HOME BLT	0560122	EXP-HOME BLT	0560160	EXP-HOME BLT	056018N
EXP-HOME BLT	0030406	EXP-HOME BLT	0030519	EXP-HOME BLT	0560124	EXP-HOME BLT	0560163	EXP-HOME BLT	056018U
EXP-HOME BLT	0030407	EXP-HOME BLT	0030520	EXP-HOME BLT	056012H	EXP-HOME BLT	0560165	EXP-HOME BLT	056018Z
EXP-HOME BLT	0030408	EXP-HOME BLT	0030521	EXP-HOME BLT	056012P	EXP-HOME BLT	0560166	EXP-HOME BLT	056019B
EXP-HOME BLT	0030409	EXP-HOME BLT	0030522	EXP-HOME BLT	056012Q	EXP-HOME BLT	0560168	EXP-HOME BLT	056019E
EXP-HOME BLT	0030415	EXP-HOME BLT	0030525	EXP-HOME BLT	056012R	EXP-HOME BLT	056016A	EXP-HOME BLT	056019H
EXP-HOME BLT	0030416	EXP-HOME BLT	0030526	EXP-HOME BLT	056012S	EXP-HOME BLT	056016B	EXP-HOME BLT	056019J
EXP-HOME BLT	0030417	EXP-HOME BLT	0030537	EXP-HOME BLT	056012T	EXP-HOME BLT	056016C	EXP-HOME BLT	056019L
EXP-HOME BLT	0030420	EXP-HOME BLT	0030538	EXP-HOME BLT	056012U	EXP-HOME BLT	056016E	EXP-HOME BLT	056019N
EXP-HOME BLT	0030421	EXP-HOME BLT	0030540	EXP-HOME BLT	056012V	EXP-HOME BLT	056016F	EXP-HOME BLT	056019R
EXP-HOME BLT	0030422	EXP-HOME BLT	0030542	EXP-HOME BLT	056012W	EXP-HOME BLT	056016G	EXP-HOME BLT	056019S
EXP-HOME BLT	0030423	EXP-HOME BLT	0030543	EXP-HOME BLT	056012Y	EXP-HOME BLT	056016H	EXP-HOME BLT	05601A5
EXP-HOME BLT	0030427	EXP-HOME BLT	0060115	EXP-HOME BLT	0560132	EXP-HOME BLT	056016J	EXP-HOME BLT	05601A6
EXP-HOME BLT	0030429	EXP-HOME BLT	0030531	EXP-HOME BLT	0560139	EXP-HOME BLT	056016M	EXP-HOME BLT	05601AQ
EXP-HOME BLT	0030430	EXP-HOME BLT	0560102	EXP-HOME BLT	056013A	EXP-HOME BLT	056016N	EXP-HOME BLT	05601AT
EXP-HOME BLT	0030431	EXP-HOME BLT	0560103	EXP-HOME BLT	056013B	EXP-HOME BLT	056016Q	EXP-HOME BLT	05601AW
EXP-HOME BLT	0030433	EXP-HOME BLT	0560104	EXP-HOME BLT	056013D	EXP-HOME BLT	056016S	EXP-HOME BLT	05601AX
EXP-HOME BLT	0030436	EXP-HOME BLT	0560107	EXP-HOME BLT	056013H	EXP-HOME BLT	056016U	EXP-HOME BLT	05601B2
EXP-HOME BLT	0030437	EXP-HOME BLT	0560109	EXP-HOME BLT	056013J	EXP-HOME BLT	056016X	EXP-HOME BLT	05601B4
EXP-HOME BLT	0030441	EXP-HOME BLT	056010C	EXP-HOME BLT	056013P	EXP-HOME BLT	0560173	EXP-HOME BLT	05601B7
EXP-HOME BLT	0030444	EXP-HOME BLT	056010D	EXP-HOME BLT	056013T	EXP-HOME BLT	0560174	EXP-HOME BLT	05601BC
EXP-HOME BLT	0030445	EXP-HOME BLT	056010E	EXP-HOME BLT	056013V	EXP-HOME BLT	0560175	EXP-HOME BLT	05601BK
EXP-HOME BLT	0030448	EXP-HOME BLT	056010H	EXP-HOME BLT	056013X	EXP-HOME BLT	0560177	EXP-HOME BLT	05601BP
EXP-HOME BLT	0030451	EXP-HOME BLT	056010S	EXP-HOME BLT	0560140	EXP-HOME BLT	0560178	EXP-HOME BLT	05601BQ
EXP-HOME BLT	0030453	EXP-HOME BLT	056010V	EXP-HOME BLT	0560146	EXP-HOME BLT	0560179	EXP-HOME BLT	05601BT
EXP-HOME BLT	0030455	EXP-HOME BLT	056010W	EXP-HOME BLT	0560147	EXP-HOME BLT	056017C	EXP-HOME BLT	05601C2
EXP-HOME BLT	0030456	EXP-HOME BLT	056010X	EXP-HOME BLT	056014E	EXP-HOME BLT	056017G	EXP-HOME BLT	05601C5
EXP-HOME BLT	0030458	EXP-HOME BLT	0560110	EXP-HOME BLT	056014J	EXP-HOME BLT	056017L	EXP-HOME BLT	05601C6
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EXP-HOME BLT	0030463	EXP-HOME BLT	0560112	EXP-HOME BLT	056014N	EXP-HOME BLT	056017X	EXP-HOME BLT	05601CG
EXP-HOME BLT	0030469	EXP-HOME BLT	0560114	EXP-HOME BLT	056014U	EXP-HOME BLT	0560180	EXP-HOME BLT	05601CH
EXP-HOME BLT	0030471	EXP-HOME BLT	0560115	EXP-HOME BLT	056014V	EXP-HOME BLT	0560185	EXP-HOME BLT	05601CL
EXP-HOME BLT	0030501	EXP-HOME BLT	0560116	EXP-HOME BLT	0560152	EXP-HOME BLT	0560186	EXP-HOME BLT	05601CM
EXP-HOME BLT	0030502	EXP-HOME BLT	0560118	EXP-HOME BLT	0560156	EXP-HOME BLT	0560188	EXP-HOME BLT	05601CN
EXP-HOME BLT	0030505	EXP-HOME BLT	056011E	EXP-HOME BLT	0560157	EXP-HOME BLT	056018B	EXP-HOME BLT	05601CS
EXP-HOME BLT	0030507	EXP-HOME BLT	056011G	EXP-HOME BLT	056015B	EXP-HOME BLT	056018D	EXP-HOME BLT	05601CT
EXP-HOME BLT	0030511	EXP-HOME BLT	056011J	EXP-HOME BLT	056015E	EXP-HOME BLT	056018E	EXP-HOME BLT	05601CU
EXP-HOME BLT	0030512	EXP-HOME BLT	056011L	EXP-HOME BLT	056015H	EXP-HOME BLT	056018F	EXP-HOME BLT	05601CV
EXP-HOME BLT	0030514	EXP-HOME BLT	056011N	EXP-HOME BLT	056015K	EXP-HOME BLT	056018H	EXP-HOME BLT	05601CZ
									05601D4

APPENDIX B

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APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05601V5	EXP-HOME BLT	05602X9	EXP-HOME BLT	05603BA	EXP-HOME BLT	05603WP	EXP-HOME BLT	05603WJ	EXP-HOME BLT	056082C	EXP-HOME BLT	056082C
EXP-HOME BLT	05601Y9	EXP-HOME BLT	05602XX	EXP-HOME BLT	05603BF	EXP-HOME BLT	05603WJ	EXP-HOME BLT	05603WJ	EXP-HOME BLT	056082F	EXP-HOME BLT	056082F
EXP-HOME BLT	05601YA	EXP-HOME BLT	05602ZM	EXP-HOME BLT	05603BK	EXP-HOME BLT	05603YM	EXP-HOME BLT	05603YM	EXP-HOME BLT	056082H	EXP-HOME BLT	056082H
EXP-HOME BLT	05601YF	EXP-HOME BLT	05602ZP	EXP-HOME BLT	05603BR	EXP-HOME BLT	05603Z3	EXP-HOME BLT	05603Z3	EXP-HOME BLT	056082J	EXP-HOME BLT	056082J
EXP-HOME BLT	05601YG	EXP-HOME BLT	0560300	EXP-HOME BLT	05603CB	EXP-HOME BLT	05603ZR	EXP-HOME BLT	05603ZR	EXP-HOME BLT	056082K	EXP-HOME BLT	056082K
EXP-HOME BLT	05601YH	EXP-HOME BLT	056030S	EXP-HOME BLT	05603CM	EXP-HOME BLT	05603ZT	EXP-HOME BLT	05603ZT	EXP-HOME BLT	056082L	EXP-HOME BLT	056082L
EXP-HOME BLT	05601YJ	EXP-HOME BLT	0560322	EXP-HOME BLT	05603CN	EXP-HOME BLT	0560452	EXP-HOME BLT	0560452	EXP-HOME BLT	056082M	EXP-HOME BLT	056082M
EXP-HOME BLT	05601YK	EXP-HOME BLT	0560336	EXP-HOME BLT	05603DC	EXP-HOME BLT	05604T4	EXP-HOME BLT	05604T4	EXP-HOME BLT	056082N	EXP-HOME BLT	056082N
EXP-HOME BLT	05601YQ	EXP-HOME BLT	0560338	EXP-HOME BLT	05603DD	EXP-HOME BLT	05604UM	EXP-HOME BLT	05604UM	EXP-HOME BLT	056082P	EXP-HOME BLT	056082P
EXP-HOME BLT	05601YR	EXP-HOME BLT	0560339	EXP-HOME BLT	05603E6	EXP-HOME BLT	0560611	EXP-HOME BLT	0560611	EXP-HOME BLT	056082Q	EXP-HOME BLT	056082Q
EXP-HOME BLT	05601YS	EXP-HOME BLT	056033F	EXP-HOME BLT	05603E9	EXP-HOME BLT	0560633	EXP-HOME BLT	0560633	EXP-HOME BLT	056082R	EXP-HOME BLT	056082R
EXP-HOME BLT	05601YT	EXP-HOME BLT	056033X	EXP-HOME BLT	05603EC	EXP-HOME BLT	0560649	EXP-HOME BLT	0560649	EXP-HOME BLT	056082T	EXP-HOME BLT	056082T
EXP-HOME BLT	05601YU	EXP-HOME BLT	0560345	EXP-HOME BLT	05603EL	EXP-HOME BLT	056068N	EXP-HOME BLT	056068N	EXP-HOME BLT	056082Z	EXP-HOME BLT	056082Z
EXP-HOME BLT	05601Z1	EXP-HOME BLT	0560347	EXP-HOME BLT	05603EM	EXP-HOME BLT	056068P	EXP-HOME BLT	056068P	EXP-HOME BLT	0560833	EXP-HOME BLT	0560833
EXP-HOME BLT	05601ZC	EXP-HOME BLT	056034L	EXP-HOME BLT	05603EN	EXP-HOME BLT	05607AA	EXP-HOME BLT	05607AA	EXP-HOME BLT	0560834	EXP-HOME BLT	0560834
EXP-HOME BLT	05601ZE	EXP-HOME BLT	056034M	EXP-HOME BLT	05603FV	EXP-HOME BLT	05607AB	EXP-HOME BLT	05607AB	EXP-HOME BLT	0560835	EXP-HOME BLT	0560835
EXP-HOME BLT	05601ZS	EXP-HOME BLT	056034N	EXP-HOME BLT	05603HB	EXP-HOME BLT	0560801	EXP-HOME BLT	0560801	EXP-HOME BLT	0560836	EXP-HOME BLT	0560836
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EXP-HOME BLT	05601ZU	EXP-HOME BLT	056034T	EXP-HOME BLT	05603HX	EXP-HOME BLT	0560811	EXP-HOME BLT	0560811	EXP-HOME BLT	0560839	EXP-HOME BLT	0560839
EXP-HOME BLT	05601ZV	EXP-HOME BLT	0560356	EXP-HOME BLT	05603JB	EXP-HOME BLT	0560814	EXP-HOME BLT	0560814	EXP-HOME BLT	056083A	EXP-HOME BLT	056083A
EXP-HOME BLT	05601ZX	EXP-HOME BLT	056035A	EXP-HOME BLT	05603JC	EXP-HOME BLT	0560815	EXP-HOME BLT	0560815	EXP-HOME BLT	056083B	EXP-HOME BLT	056083B
EXP-HOME BLT	0560222	EXP-HOME BLT	056035J	EXP-HOME BLT	05603JH	EXP-HOME BLT	0560816	EXP-HOME BLT	0560816	EXP-HOME BLT	056083C	EXP-HOME BLT	056083C
EXP-HOME BLT	056025H	EXP-HOME BLT	056035K	EXP-HOME BLT	05603JM	EXP-HOME BLT	0560818	EXP-HOME BLT	0560818	EXP-HOME BLT	056083F	EXP-HOME BLT	056083F
EXP-HOME BLT	0560287	EXP-HOME BLT	056035L	EXP-HOME BLT	05603L5	EXP-HOME BLT	0560819	EXP-HOME BLT	0560819	EXP-HOME BLT	056083H	EXP-HOME BLT	056083H
EXP-HOME BLT	056028A	EXP-HOME BLT	056035Q	EXP-HOME BLT	05603M2	EXP-HOME BLT	056081A	EXP-HOME BLT	056081A	EXP-HOME BLT	056083K	EXP-HOME BLT	056083K
EXP-HOME BLT	0560281	EXP-HOME BLT	056035R	EXP-HOME BLT	05603M3	EXP-HOME BLT	056081C	EXP-HOME BLT	056081C	EXP-HOME BLT	056083P	EXP-HOME BLT	056083P
EXP-HOME BLT	056028B	EXP-HOME BLT	056035T	EXP-HOME BLT	05603MA	EXP-HOME BLT	056081D	EXP-HOME BLT	056081D	EXP-HOME BLT	056083R	EXP-HOME BLT	056083R
EXP-HOME BLT	05602D4	EXP-HOME BLT	056035U	EXP-HOME BLT	05603MK	EXP-HOME BLT	056081E	EXP-HOME BLT	056081E	EXP-HOME BLT	056083T	EXP-HOME BLT	056083T
EXP-HOME BLT	05602EU	EXP-HOME BLT	056035Z	EXP-HOME BLT	05603MS	EXP-HOME BLT	056081F	EXP-HOME BLT	056081F	EXP-HOME BLT	056083U	EXP-HOME BLT	056083U
EXP-HOME BLT	05602F0	EXP-HOME BLT	0560365	EXP-HOME BLT	05603N3	EXP-HOME BLT	056081G	EXP-HOME BLT	056081G	EXP-HOME BLT	056083V	EXP-HOME BLT	056083V
EXP-HOME BLT	05602H2	EXP-HOME BLT	056036V	EXP-HOME BLT	05603N7	EXP-HOME BLT	056081J	EXP-HOME BLT	056081J	EXP-HOME BLT	056083W	EXP-HOME BLT	056083W
EXP-HOME BLT	05602JC	EXP-HOME BLT	056037F	EXP-HOME BLT	05603NM	EXP-HOME BLT	056081N	EXP-HOME BLT	056081N	EXP-HOME BLT	056083X	EXP-HOME BLT	056083X
EXP-HOME BLT	05602KD	EXP-HOME BLT	056037M	EXP-HOME BLT	05603PW	EXP-HOME BLT	056081V	EXP-HOME BLT	056081V	EXP-HOME BLT	056083Y	EXP-HOME BLT	056083Y
EXP-HOME BLT	05602KL	EXP-HOME BLT	0560381	EXP-HOME BLT	05603QB	EXP-HOME BLT	056081W	EXP-HOME BLT	056081W	EXP-HOME BLT	056083Z	EXP-HOME BLT	056083Z
EXP-HOME BLT	05602KP	EXP-HOME BLT	056038Q	EXP-HOME BLT	05603QQ	EXP-HOME BLT	056081Y	EXP-HOME BLT	056081Y	EXP-HOME BLT	0560841	EXP-HOME BLT	0560841
EXP-HOME BLT	05602K2	EXP-HOME BLT	056038Z	EXP-HOME BLT	05603RK	EXP-HOME BLT	056081Z	EXP-HOME BLT	056081Z	EXP-HOME BLT	0560843	EXP-HOME BLT	0560843
EXP-HOME BLT	05602L5	EXP-HOME BLT	056039H	EXP-HOME BLT	05603SX	EXP-HOME BLT	0560820	EXP-HOME BLT	0560820	EXP-HOME BLT	0560845	EXP-HOME BLT	0560845
EXP-HOME BLT	05602LS	EXP-HOME BLT	05603A0	EXP-HOME BLT	05603TB	EXP-HOME BLT	0560823	EXP-HOME BLT	0560823	EXP-HOME BLT	0560848	EXP-HOME BLT	0560848
EXP-HOME BLT	05602R6	EXP-HOME BLT	05603A3	EXP-HOME BLT	05603TM	EXP-HOME BLT	0560824	EXP-HOME BLT	0560824	EXP-HOME BLT	056084A	EXP-HOME BLT	056084A
EXP-HOME BLT	05602RX	EXP-HOME BLT	05603A8	EXP-HOME BLT	05603SUE	EXP-HOME BLT	0560827	EXP-HOME BLT	0560827	EXP-HOME BLT	056084C	EXP-HOME BLT	056084C
EXP-HOME BLT	05602U3	EXP-HOME BLT	05603AK	EXP-HOME BLT	05603UW	EXP-HOME BLT	0560829	EXP-HOME BLT	0560829	EXP-HOME BLT	056084D	EXP-HOME BLT	056084D
EXP-HOME BLT	05602V5	EXP-HOME BLT	05603AV	EXP-HOME BLT	05603UY	EXP-HOME BLT	056082A	EXP-HOME BLT	056082A	EXP-HOME BLT	056084F	EXP-HOME BLT	056084F
EXP-HOME BLT	05602VQ	EXP-HOME BLT	05603AZ	EXP-HOME BLT	05603WA	EXP-HOME BLT	056082B	EXP-HOME BLT	056082B	EXP-HOME BLT	056084K	EXP-HOME BLT	056084K

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	056084N	EXP-HOME BLT	056086Q	EXP-HOME BLT	056088W	EXP-HOME BLT	05608AH
EXP-HOME BLT	056084P	EXP-HOME BLT	056086S	EXP-HOME BLT	056088X	EXP-HOME BLT	05608AX
EXP-HOME BLT	056084Q	EXP-HOME BLT	056086V	EXP-HOME BLT	056088Y	EXP-HOME BLT	05608AY
EXP-HOME BLT	056084R	EXP-HOME BLT	056086W	EXP-HOME BLT	056088Z	EXP-HOME BLT	05608B2
EXP-HOME BLT	056084V	EXP-HOME BLT	056086X	EXP-HOME BLT	0560891	EXP-HOME BLT	05608B3
EXP-HOME BLT	056084X	EXP-HOME BLT	056086Z	EXP-HOME BLT	0560895	EXP-HOME BLT	05608B5
EXP-HOME BLT	056084Y	EXP-HOME BLT	0560871	EXP-HOME BLT	0560896	EXP-HOME BLT	05608B6
EXP-HOME BLT	056084Z	EXP-HOME BLT	0560872	EXP-HOME BLT	0560898	EXP-HOME BLT	05608B7
EXP-HOME BLT	0560853	EXP-HOME BLT	0560874	EXP-HOME BLT	056089A	EXP-HOME BLT	05608B8
EXP-HOME BLT	0560854	EXP-HOME BLT	0560877	EXP-HOME BLT	056089B	EXP-HOME BLT	05608BA
EXP-HOME BLT	0560856	EXP-HOME BLT	0560878	EXP-HOME BLT	056089C	EXP-HOME BLT	05608BB
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EXP-HOME BLT	0560858	EXP-HOME BLT	056087F	EXP-HOME BLT	056089H	EXP-HOME BLT	05608BD
EXP-HOME BLT	0560859	EXP-HOME BLT	056087H	EXP-HOME BLT	056089J	EXP-HOME BLT	05608BF
EXP-HOME BLT	056085A	EXP-HOME BLT	056087J	EXP-HOME BLT	056089K	EXP-HOME BLT	05608BG
EXP-HOME BLT	056085B	EXP-HOME BLT	056087L	EXP-HOME BLT	056089L	EXP-HOME BLT	05608BJ
EXP-HOME BLT	056085C	EXP-HOME BLT	056087M	EXP-HOME BLT	056089N	EXP-HOME BLT	05608BK
EXP-HOME BLT	056085D	EXP-HOME BLT	056087N	EXP-HOME BLT	056089P	EXP-HOME BLT	05608BM
EXP-HOME BLT	056085E	EXP-HOME BLT	056087P	EXP-HOME BLT	056089Q	EXP-HOME BLT	05608BN
EXP-HOME BLT	056085F	EXP-HOME BLT	056087R	EXP-HOME BLT	056089R	EXP-HOME BLT	05608BL
EXP-HOME BLT	056085H	EXP-HOME BLT	056087S	EXP-HOME BLT	056089S	EXP-HOME BLT	05608BN
EXP-HOME BLT	056085J	EXP-HOME BLT	056087U	EXP-HOME BLT	056089T	EXP-HOME BLT	05608BP
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EXP-HOME BLT	0560866	EXP-HOME BLT	056088H	EXP-HOME BLT	05608AD	EXP-HOME BLT	05608C7
EXP-HOME BLT	0560868	EXP-HOME BLT	056088J	EXP-HOME BLT	05608AE	EXP-HOME BLT	05608CC
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EXP-HOME BLT	056086E	EXP-HOME BLT	056088L	EXP-HOME BLT	05608AG	EXP-HOME BLT	05608CG
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EXP-HOME BLT	056086N	EXP-HOME BLT	056088S	EXP-HOME BLT	05608AN	EXP-HOME BLT	05608CM
EXP-HOME BLT	056086P	EXP-HOME BLT	056088V	EXP-HOME BLT	05608AR	EXP-HOME BLT	05608CN
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EXP-HOME BLT	056086S	EXP-HOME BLT	056088Y	EXP-HOME BLT	05608AX	EXP-HOME BLT	05608CS
EXP-HOME BLT	056086T	EXP-HOME BLT	056088Z	EXP-HOME BLT	05608AY	EXP-HOME BLT	05608D
EXP-HOME BLT	056086U						

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES[illegible]

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	056080H	EXP-HOME BLT	05608SY	EXP-HOME BLT	05608VJ	EXP-HOME BLT	05608ZD	EXP-HOME BLT	056093G
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EXP-HOME BLT	056080K	EXP-HOME BLT	05608T5	EXP-HOME BLT	05608VL	EXP-HOME BLT	05608ZL	EXP-HOME BLT	056093L
EXP-HOME BLT	056080L	EXP-HOME BLT	05608T6	EXP-HOME BLT	05608VM	EXP-HOME BLT	05608ZK	EXP-HOME BLT	056093R
EXP-HOME BLT	056080M	EXP-HOME BLT	05608T7	EXP-HOME BLT	05608VN	EXP-HOME BLT	05608ZL	EXP-HOME BLT	056093V
EXP-HOME BLT	056080N	EXP-HOME BLT	05608T8	EXP-HOME BLT	05608VP	EXP-HOME BLT	05608ZN	EXP-HOME BLT	056093Z
EXP-HOME BLT	056080P	EXP-HOME BLT	05608T9	EXP-HOME BLT	05608VQ	EXP-HOME BLT	0560901	EXP-HOME BLT	0560949
EXP-HOME BLT	056080Q	EXP-HOME BLT	05608TF	EXP-HOME BLT	05608VR	EXP-HOME BLT	0560905	EXP-HOME BLT	056094A
EXP-HOME BLT	056080R	EXP-HOME BLT	05608TH	EXP-HOME BLT	05608VT	EXP-HOME BLT	0560907	EXP-HOME BLT	056094B
EXP-HOME BLT	056080S	EXP-HOME BLT	05608TL	EXP-HOME BLT	05608VU	EXP-HOME BLT	0560911	EXP-HOME BLT	056094C
EXP-HOME BLT	056080T	EXP-HOME BLT	05608TN	EXP-HOME BLT	05608VV	EXP-HOME BLT	056091A	EXP-HOME BLT	056094F
EXP-HOME BLT	056080U	EXP-HOME BLT	05608TP	EXP-HOME BLT	05608VX	EXP-HOME BLT	056091B	EXP-HOME BLT	056094G
EXP-HOME BLT	056080V	EXP-HOME BLT	05608TQ	EXP-HOME BLT	05608V1	EXP-HOME BLT	056091C	EXP-HOME BLT	056094J
EXP-HOME BLT	056080W	EXP-HOME BLT	05608TR	EXP-HOME BLT	05608V3	EXP-HOME BLT	056091D	EXP-HOME BLT	056094K
EXP-HOME BLT	056080X	EXP-HOME BLT	05608TS	EXP-HOME BLT	05608V4	EXP-HOME BLT	056091M	EXP-HOME BLT	056094M
EXP-HOME BLT	056080Y	EXP-HOME BLT	05608TT	EXP-HOME BLT	05608V5	EXP-HOME BLT	056091R	EXP-HOME BLT	056094N
EXP-HOME BLT	056080Z	EXP-HOME BLT	05608TV	EXP-HOME BLT	05608V6	EXP-HOME BLT	056091T	EXP-HOME BLT	056094P
EXP-HOME BLT	056080R5	EXP-HOME BLT	05608TX	EXP-HOME BLT	05608V7	EXP-HOME BLT	056091U	EXP-HOME BLT	056094Q
EXP-HOME BLT	056080R6	EXP-HOME BLT	05608T2	EXP-HOME BLT	05608V8	EXP-HOME BLT	056091V	EXP-HOME BLT	056094S
EXP-HOME BLT	056080R8	EXP-HOME BLT	05608U1	EXP-HOME BLT	05608V9	EXP-HOME BLT	056091Y	EXP-HOME BLT	056094T
EXP-HOME BLT	056080RC	EXP-HOME BLT	05608U4	EXP-HOME BLT	05608WA	EXP-HOME BLT	0560921	EXP-HOME BLT	056094U
EXP-HOME BLT	056080RH	EXP-HOME BLT	05608U5	EXP-HOME BLT	05608WM	EXP-HOME BLT	056092A	EXP-HOME BLT	056094V
EXP-HOME BLT	056080RJ	EXP-HOME BLT	05608U6	EXP-HOME BLT	05608VP	EXP-HOME BLT	056092B	EXP-HOME BLT	056094Z
EXP-HOME BLT	056080RL	EXP-HOME BLT	05608U7	EXP-HOME BLT	05608VR	EXP-HOME BLT	056092D	EXP-HOME BLT	0560952
EXP-HOME BLT	056080RN	EXP-HOME BLT	05608U9	EXP-HOME BLT	05608WS	EXP-HOME BLT	056092F	EXP-HOME BLT	0560955
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EXP-HOME BLT	056080RQ	EXP-HOME BLT	05608UB	EXP-HOME BLT	05608W1	EXP-HOME BLT	056092H	EXP-HOME BLT	056095B
EXP-HOME BLT	056080RV	EXP-HOME BLT	05608UH	EXP-HOME BLT	05608W2	EXP-HOME BLT	056092L	EXP-HOME BLT	056095C
EXP-HOME BLT	056080RY	EXP-HOME BLT	05608UK	EXP-HOME BLT	05608W3	EXP-HOME BLT	056092M	EXP-HOME BLT	056095F
EXP-HOME BLT	056080SA	EXP-HOME BLT	05608UL	EXP-HOME BLT	05608W4	EXP-HOME BLT	056092P	EXP-HOME BLT	056095G
EXP-HOME BLT	056080SB	EXP-HOME BLT	05608UM	EXP-HOME BLT	05608W8	EXP-HOME BLT	056092Q	EXP-HOME BLT	056095J
EXP-HOME BLT	056080SC	EXP-HOME BLT	05608UN	EXP-HOME BLT	05608Y2	EXP-HOME BLT	056092S	EXP-HOME BLT	056095M
EXP-HOME BLT	056080SG	EXP-HOME BLT	05608UV	EXP-HOME BLT	05608Y3	EXP-HOME BLT	056092U	EXP-HOME BLT	056095N
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EXP-HOME BLT	056080SQ	EXP-HOME BLT	05608UZ	EXP-HOME BLT	05608Z2	EXP-HOME BLT	0560936	EXP-HOME BLT	056095V
EXP-HOME BLT	056080ST	EXP-HOME BLT	05608V2	EXP-HOME BLT	05608Z5	EXP-HOME BLT	0560937	EXP-HOME BLT	056095X
EXP-HOME BLT	056080SU	EXP-HOME BLT	05608V3	EXP-HOME BLT	05608Z6	EXP-HOME BLT	0560938	EXP-HOME BLT	056095Y
EXP-HOME BLT	056080SV	EXP-HOME BLT	05608V6	EXP-HOME BLT	05608Z7	EXP-HOME BLT	056093C	EXP-HOME BLT	0560960
EXP-HOME BLT	056080SW	EXP-HOME BLT	05608VG	EXP-HOME BLT	05608ZA	EXP-HOME BLT	056093D	EXP-HOME BLT	0560962

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME FAA CODE

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AIRCRAFT GROUP NAME
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05609ZF	EXP-HOME BLT	05611BV	EXP-HOME BLT	05611EW	EXP-HOME BLT	0561209	EXP-HOME BLT	056123Z
EXP-HOME BLT	05609ZL	EXP-HOME BLT	05611BW	EXP-HOME BLT	05611EX	EXP-HOME BLT	0561210	EXP-HOME BLT	0561240
EXP-HOME BLT	05609ZM	EXP-HOME BLT	05611BX	EXP-HOME BLT	05611EZ	EXP-HOME BLT	0561214	EXP-HOME BLT	0561244
EXP-HOME BLT	05609ZP	EXP-HOME BLT	05611BZ	EXP-HOME BLT	05611F0	EXP-HOME BLT	0561216	EXP-HOME BLT	0561246
EXP-HOME BLT	05609ZQ	EXP-HOME BLT	05611C0	EXP-HOME BLT	05611F1	EXP-HOME BLT	0561219	EXP-HOME BLT	0561247
EXP-HOME BLT	05609ZR	EXP-HOME BLT	05611C5	EXP-HOME BLT	05611F2	EXP-HOME BLT	056121A	EXP-HOME BLT	0561248
EXP-HOME BLT	05609ZS	EXP-HOME BLT	05611C7	EXP-HOME BLT	05611F6	EXP-HOME BLT	056121C	EXP-HOME BLT	0561249
EXP-HOME BLT	05609ZW	EXP-HOME BLT	05611CA	EXP-HOME BLT	05611FD	EXP-HOME BLT	056121D	EXP-HOME BLT	056124A
EXP-HOME BLT	05609ZY	EXP-HOME BLT	05611CG	EXP-HOME BLT	05611FJ	EXP-HOME BLT	056121F	EXP-HOME BLT	056124B
EXP-HOME BLT	0561002	EXP-HOME BLT	05611CH	EXP-HOME BLT	05611FL	EXP-HOME BLT	056121G	EXP-HOME BLT	056124D
EXP-HOME BLT	0561101	EXP-HOME BLT	05611CM	EXP-HOME BLT	05611FN	EXP-HOME BLT	056121K	EXP-HOME BLT	056124K
EXP-HOME BLT	0561103	EXP-HOME BLT	05611CN	EXP-HOME BLT	05611FR	EXP-HOME BLT	056121U	EXP-HOME BLT	056124L
EXP-HOME BLT	0561114	EXP-HOME BLT	05611CQ	EXP-HOME BLT	05611FS	EXP-HOME BLT	056121V	EXP-HOME BLT	056124R
EXP-HOME BLT	0561115	EXP-HOME BLT	05611CU	EXP-HOME BLT	05611FV	EXP-HOME BLT	056121Z	EXP-HOME BLT	056124V
EXP-HOME BLT	0561116	EXP-HOME BLT	05611CV	EXP-HOME BLT	05611FZ	EXP-HOME BLT	0561222	EXP-HOME BLT	056124X
EXP-HOME BLT	0561119	EXP-HOME BLT	05611CW	EXP-HOME BLT	05611G1	EXP-HOME BLT	0561226	EXP-HOME BLT	056124Z
EXP-HOME BLT	0561120	EXP-HOME BLT	05611CX	EXP-HOME BLT	05611G2	EXP-HOME BLT	0561227	EXP-HOME BLT	0561253
EXP-HOME BLT	0561121	EXP-HOME BLT	05611D0	EXP-HOME BLT	05611G5	EXP-HOME BLT	0561228	EXP-HOME BLT	0561254
EXP-HOME BLT	0561122	EXP-HOME BLT	05611D1	EXP-HOME BLT	05611G7	EXP-HOME BLT	056122B	EXP-HOME BLT	0561259
EXP-HOME BLT	0561123	EXP-HOME BLT	05611D2	EXP-HOME BLT	05611G8	EXP-HOME BLT	056122C	EXP-HOME BLT	056125A
EXP-HOME BLT	0561124	EXP-HOME BLT	05611D3	EXP-HOME BLT	05611GC	EXP-HOME BLT	056122E	EXP-HOME BLT	056125C
EXP-HOME BLT	05611A2	EXP-HOME BLT	05611D5	EXP-HOME BLT	05611GF	EXP-HOME BLT	056122F	EXP-HOME BLT	056125K
EXP-HOME BLT	05611A3	EXP-HOME BLT	05611D6	EXP-HOME BLT	05611GG	EXP-HOME BLT	056122G	EXP-HOME BLT	056125L
EXP-HOME BLT	05611A5	EXP-HOME BLT	05611D7	EXP-HOME BLT	05611GJ	EXP-HOME BLT	056122H	EXP-HOME BLT	056125N
EXP-HOME BLT	05611A7	EXP-HOME BLT	05611DA	EXP-HOME BLT	05611GL	EXP-HOME BLT	056122K	EXP-HOME BLT	056125T
EXP-HOME BLT	05611AD	EXP-HOME BLT	05611DD	EXP-HOME BLT	05611GN	EXP-HOME BLT	056122P	EXP-HOME BLT	056125U
EXP-HOME BLT	05611AM	EXP-HOME BLT	05611DE	EXP-HOME BLT	05611GQ	EXP-HOME BLT	056122R	EXP-HOME BLT	056125X
EXP-HOME BLT	05611AN	EXP-HOME BLT	05611DJ	EXP-HOME BLT	05611HB	EXP-HOME BLT	056122U	EXP-HOME BLT	056125Y
EXP-HOME BLT	05611AX	EXP-HOME BLT	05611DK	EXP-HOME BLT	05611GY	EXP-HOME BLT	056122V	EXP-HOME BLT	0561262
EXP-HOME BLT	05611B0	EXP-HOME BLT	05611DN	EXP-HOME BLT	05611HE	EXP-HOME BLT	0561230	EXP-HOME BLT	0561265
EXP-HOME BLT	05611B2	EXP-HOME BLT	05611DR	EXP-HOME BLT	05611HF	EXP-HOME BLT	0561233	EXP-HOME BLT	0561267
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EXP-HOME BLT	05611B5	EXP-HOME BLT	05611DZ	EXP-HOME BLT	05611HJ	EXP-HOME BLT	0561235	EXP-HOME BLT	056126F
EXP-HOME BLT	05611B6	EXP-HOME BLT	05611E3	EXP-HOME BLT	05611HK	EXP-HOME BLT	0561237	EXP-HOME BLT	056126L
EXP-HOME BLT	05611B8	EXP-HOME BLT	05611E4	EXP-HOME BLT	05611HL	EXP-HOME BLT	0561238	EXP-HOME BLT	056126M
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EXP-HOME BLT	05611BK	EXP-HOME BLT	05611E7	EXP-HOME BLT	05611HN	EXP-HOME BLT	056123D	EXP-HOME BLT	056126R
EXP-HOME BLT	05611BM	EXP-HOME BLT	05611EG	EXP-HOME BLT	05611HQ	EXP-HOME BLT	056123F	EXP-HOME BLT	056126S
EXP-HOME BLT	05611BN	EXP-HOME BLT	05611EJ	EXP-HOME BLT	05611HT	EXP-HOME BLT	056123H	EXP-HOME BLT	056126V
EXP-HOME BLT	05611BP	EXP-HOME BLT	05611EM	EXP-HOME BLT	05611I0	EXP-HOME BLT	056123L	EXP-HOME BLT	056126W
EXP-HOME BLT	05611BQ	EXP-HOME BLT	05611EN	EXP-HOME BLT	0561202	EXP-HOME BLT	056123R	EXP-HOME BLT	056126X
EXP-HOME BLT	05611BS	EXP-HOME BLT	05611EQ	EXP-HOME BLT	0561204	EXP-HOME BLT	056123T	EXP-HOME BLT	056126Z
EXP-HOME BLT	05611BU	EXP-HOME BLT	05611EV	EXP-HOME BLT	0561205	EXP-HOME BLT	056123U	EXP-HOME BLT	0561270

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0561307	EXP-HOME BLT	056130U	EXP-HOME BLT	056130V	EXP-HOME BLT
0561309	EXP-HOME BLT	056130W	EXP-HOME BLT	056130X	EXP-HOME BLT
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05613DB	EXP-HOME BLT	056131A	EXP-HOME BLT	056131B	EXP-HOME BLT
05613DH	EXP-HOME BLT	056131C	EXP-HOME BLT	056131D	EXP-HOME BLT
05613DJ	EXP-HOME BLT	056131E	EXP-HOME BLT	056131F	EXP-HOME BLT
05613DL	EXP-HOME BLT	056131G	EXP-HOME BLT	056131H	EXP-HOME BLT
05613DN	EXP-HOME BLT	056131I	EXP-HOME BLT	056131J	EXP-HOME BLT
05613DO	EXP-HOME BLT	056131K	EXP-HOME BLT	056131L	EXP-HOME BLT
05613DX	EXP-HOME BLT	056131M	EXP-HOME BLT	056131N	EXP-HOME BLT
05613DY	EXP-HOME BLT	056131O	EXP-HOME BLT	056131P	EXP-HOME BLT
05613EZ	EXP-HOME BLT	056131Q	EXP-HOME BLT	056131R	EXP-HOME BLT
05613E5	EXP-HOME BLT	056131S	EXP-HOME BLT	056131T	EXP-HOME BLT
05613E7	EXP-HOME BLT	056131U	EXP-HOME BLT	056131V	EXP-HOME BLT
05613E9	EXP-HOME BLT	056131W	EXP-HOME BLT	056131X	EXP-HOME BLT
05613EG	EXP-HOME BLT	056131Y	EXP-HOME BLT	056131Z	EXP-HOME BLT
05613EJ	EXP-HOME BLT	056132A	EXP-HOME BLT	056132B	EXP-HOME BLT
05613EK	EXP-HOME BLT	056132C	EXP-HOME BLT	056132D	EXP-HOME BLT
05613EL	EXP-HOME BLT	056132E	EXP-HOME BLT	056132F	EXP-HOME BLT
05613EM	EXP-HOME BLT	056132G	EXP-HOME BLT	056132H	EXP-HOME BLT
05613EQ	EXP-HOME BLT	056132I	EXP-HOME BLT	056132J	EXP-HOME BLT
05613EV	EXP-HOME BLT	056132K	EXP-HOME BLT	056132L	EXP-HOME BLT
05613F1	EXP-HOME BLT	056132M	EXP-HOME BLT	056132N	EXP-HOME BLT
05613F2	EXP-HOME BLT	056132O	EXP-HOME BLT	056132P	EXP-HOME BLT
05613F4	EXP-HOME BLT	056132Q	EXP-HOME BLT	056132R	EXP-HOME BLT
05613F5	EXP-HOME BLT	056132S	EXP-HOME BLT	056132T	EXP-HOME BLT
05613F7	EXP-HOME BLT	056132U	EXP-HOME BLT	056132V	EXP-HOME BLT
05613FF	EXP-HOME BLT	056132W	EXP-HOME BLT	056132X	EXP-HOME BLT
05613FG	EXP-HOME BLT	056132Y	EXP-HOME BLT	056132Z	EXP-HOME BLT
05613FH	EXP-HOME BLT	056133A	EXP-HOME BLT	056133B	EXP-HOME BLT
05613FU	EXP-HOME BLT	056133C	EXP-HOME BLT	056133D	EXP-HOME BLT
05613FV	EXP-HOME BLT	056133E	EXP-HOME BLT	056133F	EXP-HOME BLT
05613G1	EXP-HOME BLT	056133G	EXP-HOME BLT	056133H	EXP-HOME BLT
05613G8	EXP-HOME BLT	056133I	EXP-HOME BLT	056133J	EXP-HOME BLT
05613GD	EXP-HOME BLT	056133K	EXP-HOME BLT	056133L	EXP-HOME BLT
05613GE	EXP-HOME BLT	056133M	EXP-HOME BLT	056133N	EXP-HOME BLT
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05613GM	EXP-HOME BLT	056133S	EXP-HOME BLT	056133T	EXP-HOME BLT
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05613GS	EXP-HOME BLT	056133Y	EXP-HOME BLT	056133Z	EXP-HOME BLT
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05613H2	EXP-HOME BLT	056133C	EXP-HOME BLT	056133D	EXP-HOME BLT
05613H3	EXP-HOME BLT	056133E	EXP-HOME BLT	056133F	EXP-HOME BLT
05613H4	EXP-HOME BLT	056133G	EXP-HOME BLT	056133H	EXP-HOME BLT
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05613HK	EXP-HOME BLT	056133Q	EXP-HOME BLT	056133R	EXP-HOME BLT
05613HZ	EXP-HOME BLT	056133S	EXP-HOME BLT	056133T	EXP-HOME BLT
05613J2	EXP-HOME BLT	056133U	EXP-HOME BLT	056133V	EXP-HOME BLT
05613J3	EXP-HOME BLT	056133W	EXP-HOME BLT	056133X	EXP-HOME BLT
05613J4	EXP-HOME BLT	056133Y	EXP-HOME BLT	056133Z	EXP-HOME BLT
05613J6	EXP-HOME BLT	056134A	EXP-HOME BLT	056134B	EXP-HOME BLT
05613J8	EXP-HOME BLT	056134C	EXP-HOME BLT	056134D	EXP-HOME BLT
05613JD	EXP-HOME BLT	056134E	EXP-HOME BLT	056134F	EXP-HOME BLT
05613JE	EXP-HOME BLT	056134G	EXP-HOME BLT	056134H	EXP-HOME BLT

AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE
EXP-HOME	BLT	05613Y5	EXP-HOME	BLT	056161X	EXP-HOME	BLT	0561648	EXP-HOME	BLT	056166E	EXP-HOME	BLT	0561695	
EXP-HOME	BLT	05613Y7	EXP-HOME	BLT	056161Z	EXP-HOME	BLT	056166C	EXP-HOME	BLT	056166G	EXP-HOME	BLT	0561697	
EXP-HOME	BLT	05613YB	EXP-HOME	BLT	0561621	EXP-HOME	BLT	056166E	EXP-HOME	BLT	056166L	EXP-HOME	BLT	0561698	
EXP-HOME	BLT	05613YJ	EXP-HOME	BLT	0561625	EXP-HOME	BLT	056166F	EXP-HOME	BLT	056166N	EXP-HOME	BLT	056169C	
EXP-HOME	BLT	05613YL	EXP-HOME	BLT	0561626	EXP-HOME	BLT	056166G	EXP-HOME	BLT	056166R	EXP-HOME	BLT	056169D	
EXP-HOME	BLT	05613YM	EXP-HOME	BLT	0561628	EXP-HOME	BLT	056166J	EXP-HOME	BLT	056166S	EXP-HOME	BLT	056169F	
EXP-HOME	BLT	05613YN	EXP-HOME	BLT	0561629	EXP-HOME	BLT	056166K	EXP-HOME	BLT	056166Y	EXP-HOME	BLT	056169G	
EXP-HOME	BLT	05613YR	EXP-HOME	BLT	056162B	EXP-HOME	BLT	056166M	EXP-HOME	BLT	0561670	EXP-HOME	BLT	056169J	
EXP-HOME	BLT	05613YX	EXP-HOME	BLT	056162D	EXP-HOME	BLT	056166N	EXP-HOME	BLT	0561671	EXP-HOME	BLT	056169M	
EXP-HOME	BLT	05613YY	EXP-HOME	BLT	056162E	EXP-HOME	BLT	056166P	EXP-HOME	BLT	0561672	EXP-HOME	BLT	056169N	
EXP-HOME	BLT	05613Z4	EXP-HOME	BLT	056162G	EXP-HOME	BLT	056166Q	EXP-HOME	BLT	0561674	EXP-HOME	BLT	056169Q	
EXP-HOME	BLT	05613ZM	EXP-HOME	BLT	056162H	EXP-HOME	BLT	056166T	EXP-HOME	BLT	0561678	EXP-HOME	BLT	056169R	
EXP-HOME	BLT	05613ZT	EXP-HOME	BLT	056162J	EXP-HOME	BLT	056166U	EXP-HOME	BLT	056167C	EXP-HOME	BLT	056169T	
EXP-HOME	BLT	05613ZU	EXP-HOME	BLT	056162S	EXP-HOME	BLT	056166V	EXP-HOME	BLT	056167D	EXP-HOME	BLT	056169U	
EXP-HOME	BLT	05614A4	EXP-HOME	BLT	056162X	EXP-HOME	BLT	056166W	EXP-HOME	BLT	056167E	EXP-HOME	BLT	056169Z	
EXP-HOME	BLT	05614A8	EXP-HOME	BLT	056162Y	EXP-HOME	BLT	056166X	EXP-HOME	BLT	056167F	EXP-HOME	BLT	05616A1	
EXP-HOME	BLT	05614AN	EXP-HOME	BLT	056162Z	EXP-HOME	BLT	056166Y	EXP-HOME	BLT	056167G	EXP-HOME	BLT	05616A2	
EXP-HOME	BLT	05614AZ	EXP-HOME	BLT	0561631	EXP-HOME	BLT	056166Z	EXP-HOME	BLT	056167H	EXP-HOME	BLT	05616A4	
EXP-HOME	BLT	056148B	EXP-HOME	BLT	0561632	EXP-HOME	BLT	056166A	EXP-HOME	BLT	056167J	EXP-HOME	BLT	05616A6	
EXP-HOME	BLT	056148G	EXP-HOME	BLT	0561633	EXP-HOME	BLT	056166C	EXP-HOME	BLT	056167M	EXP-HOME	BLT	05616A7	
EXP-HOME	BLT	05615AD	EXP-HOME	BLT	0561635	EXP-HOME	BLT	056166D	EXP-HOME	BLT	056167N	EXP-HOME	BLT	05616AC	
EXP-HOME	BLT	05615AH	EXP-HOME	BLT	0561634	EXP-HOME	BLT	056166E	EXP-HOME	BLT	056167P	EXP-HOME	BLT	05616AD	
EXP-HOME	BLT	05615AK	EXP-HOME	BLT	0561635	EXP-HOME	BLT	056166H	EXP-HOME	BLT	056167Q	EXP-HOME	BLT	05616AF	
EXP-HOME	BLT	0561602	EXP-HOME	BLT	0561637	EXP-HOME	BLT	056165J	EXP-HOME	BLT	056167R	EXP-HOME	BLT	05616AG	
EXP-HOME	BLT	0561607	EXP-HOME	BLT	0561639	EXP-HOME	BLT	056165K	EXP-HOME	BLT	056167T	EXP-HOME	BLT	05616AH	
EXP-HOME	BLT	0561608	EXP-HOME	BLT	056163D	EXP-HOME	BLT	056165L	EXP-HOME	BLT	056167X	EXP-HOME	BLT	05616AL	
EXP-HOME	BLT	0561610	EXP-HOME	BLT	056163E	EXP-HOME	BLT	056165M	EXP-HOME	BLT	056167Y	EXP-HOME	BLT	05616AS	
EXP-HOME	BLT	0561613	EXP-HOME	BLT	056163H	EXP-HOME	BLT	056165P	EXP-HOME	BLT	056167Z	EXP-HOME	BLT	05616AV	
EXP-HOME	BLT	0561617	EXP-HOME	BLT	056163J	EXP-HOME	BLT	056165Q	EXP-HOME	BLT	0561686	EXP-HOME	BLT	05616B2	
EXP-HOME	BLT	056161A	EXP-HOME	BLT	056163L	EXP-HOME	BLT	056165S	EXP-HOME	BLT	0561687	EXP-HOME	BLT	05616B5	
EXP-HOME	BLT	056161B	EXP-HOME	BLT	056163N	EXP-HOME	BLT	056165Q	EXP-HOME	BLT	0561688	EXP-HOME	BLT	05616B6	
EXP-HOME	BLT	056161E	EXP-HOME	BLT	056163R	EXP-HOME	BLT	056165T	EXP-HOME	BLT	056168G	EXP-HOME	BLT	05616B8	
EXP-HOME	BLT	056161G	EXP-HOME	BLT	056163X	EXP-HOME	BLT	056165U	EXP-HOME	BLT	056168J	EXP-HOME	BLT	05616BC	
EXP-HOME	BLT	056161I	EXP-HOME	BLT	056163Y	EXP-HOME	BLT	056165V	EXP-HOME	BLT	056168L	EXP-HOME	BLT	05616BD	
EXP-HOME	BLT	056161K	EXP-HOME	BLT	056163Y	EXP-HOME	BLT	056165W	EXP-HOME	BLT	056168M	EXP-HOME	BLT	05616BE	
EXP-HOME	BLT	056161L	EXP-HOME	BLT	0561640	EXP-HOME	BLT	056165Z	EXP-HOME	BLT	056168R	EXP-HOME	BLT	05616BH	
EXP-HOME	BLT	056161M	EXP-HOME	BLT	0561641	EXP-HOME	BLT	056166E	EXP-HOME	BLT	056168S	EXP-HOME	BLT	05616BL	
EXP-HOME	BLT	056161N	EXP-HOME	BLT	0561642	EXP-HOME	BLT	056166B	EXP-HOME	BLT	056168U	EXP-HOME	BLT	05616BQ	
EXP-HOME	BLT	056161P	EXP-HOME	BLT	0561646	EXP-HOME	BLT	0561669	EXP-HOME	BLT	056168W	EXP-HOME	BLT	05616BS	
EXP-HOME	BLT	056161Q	EXP-HOME	BLT	0561647	EXP-HOME	BLT	056166B	EXP-HOME	BLT	056168Y	EXP-HOME	BLT	05616BV	
EXP-HOME	BLT	056161U	EXP-HOME	BLT	0561648	EXP-HOME	BLT	056166C	EXP-HOME	BLT	0561692	EXP-HOME	BLT	05616BZ	
EXP-HOME	BLT	056161V	EXP-HOME	BLT	056164A	EXP-HOME	BLT	056166D	EXP-HOME	BLT	0561693	EXP-HOME	BLT	05616BN	

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES[illegible]

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES[illegible]

AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05618GE	EXP-HOME BLT	05618KG	EXP-HOME BLT	05618N9	EXP-HOME BLT	05618SZ	EXP-HOME BLT	05618VP
EXP-HOME BLT	05618GF	EXP-HOME BLT	05618KH	EXP-HOME BLT	05618NB	EXP-HOME BLT	05618T1	EXP-HOME BLT	05618VU
EXP-HOME BLT	05618GG	EXP-HOME BLT	05618KJ	EXP-HOME BLT	05618ND	EXP-HOME BLT	05618T3	EXP-HOME BLT	05618VX
EXP-HOME BLT	05618GN	EXP-HOME BLT	05618KN	EXP-HOME BLT	05618NF	EXP-HOME BLT	05618T4	EXP-HOME BLT	05618W1
EXP-HOME BLT	05618GQ	EXP-HOME BLT	05618KT	EXP-HOME BLT	05618NH	EXP-HOME BLT	05618T8	EXP-HOME BLT	05618W8
EXP-HOME BLT	05618GU	EXP-HOME BLT	05618KU	EXP-HOME BLT	05618NJ	EXP-HOME BLT	05618TA	EXP-HOME BLT	05618WA
EXP-HOME BLT	05618GZ	EXP-HOME BLT	05618KZ	EXP-HOME BLT	05618NN	EXP-HOME BLT	05618TE	EXP-HOME BLT	05618WB
EXP-HOME BLT	05618H1	EXP-HOME BLT	05618L1	EXP-HOME BLT	05618NQ	EXP-HOME BLT	05618TG	EXP-HOME BLT	05618WC
EXP-HOME BLT	05618H3	EXP-HOME BLT	05618L4	EXP-HOME BLT	05618NR	EXP-HOME BLT	05618TH	EXP-HOME BLT	05618WE
EXP-HOME BLT	05618H4	EXP-HOME BLT	05618L6	EXP-HOME BLT	05618NV	EXP-HOME BLT	05618TK	EXP-HOME BLT	05618WG
EXP-HOME BLT	05618H6	EXP-HOME BLT	05618L9	EXP-HOME BLT	05618NX	EXP-HOME BLT	05618TJ	EXP-HOME BLT	05618WJ
EXP-HOME BLT	05618HA	EXP-HOME BLT	05618LB	EXP-HOME BLT	05618P2	EXP-HOME BLT	05618TM	EXP-HOME BLT	05618WK
EXP-HOME BLT	05618HC	EXP-HOME BLT	05618LD	EXP-HOME BLT	05618P3	EXP-HOME BLT	05618TV	EXP-HOME BLT	05618WP
EXP-HOME BLT	05618HE	EXP-HOME BLT	05618LE	EXP-HOME BLT	05618P5	EXP-HOME BLT	05618T2	EXP-HOME BLT	05618WU
EXP-HOME BLT	05618HJ	EXP-HOME BLT	05618LL	EXP-HOME BLT	05618P7	EXP-HOME BLT	05618U1	EXP-HOME BLT	05618WX
EXP-HOME BLT	05618HK	EXP-HOME BLT	05618LN	EXP-HOME BLT	05618P9	EXP-HOME BLT	05618U6	EXP-HOME BLT	05618X2
EXP-HOME BLT	05618HN	EXP-HOME BLT	05618LR	EXP-HOME BLT	05618Q1	EXP-HOME BLT	05618U7	EXP-HOME BLT	05618X3
EXP-HOME BLT	05618HQ	EXP-HOME BLT	05618LU	EXP-HOME BLT	05618Q2	EXP-HOME BLT	05618U8	EXP-HOME BLT	05618X6
EXP-HOME BLT	05618HS	EXP-HOME BLT	05618LW	EXP-HOME BLT	05618Q6	EXP-HOME BLT	05618U9	EXP-HOME BLT	05618X8
EXP-HOME BLT	05618HT	EXP-HOME BLT	05618LY	EXP-HOME BLT	05618Q8	EXP-HOME BLT	05618UA	EXP-HOME BLT	05618XA
EXP-HOME BLT	05618HU	EXP-HOME BLT	05618M3	EXP-HOME BLT	05618Q9	EXP-HOME BLT	05618UB	EXP-HOME BLT	05618XC
EXP-HOME BLT	05618HX	EXP-HOME BLT	05618M4	EXP-HOME BLT	05618R1	EXP-HOME BLT	05618UC	EXP-HOME BLT	05618XE
EXP-HOME BLT	05618HZ	EXP-HOME BLT	05618M5	EXP-HOME BLT	05618R2	EXP-HOME BLT	05618UH	EXP-HOME BLT	05618XG
EXP-HOME BLT	05618J5	EXP-HOME BLT	05618M6	EXP-HOME BLT	05618R3	EXP-HOME BLT	05618UK	EXP-HOME BLT	05618XP
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EXP-HOME BLT	05618J9	EXP-HOME BLT	05618MA	EXP-HOME BLT	05618S2	EXP-HOME BLT	05618UR	EXP-HOME BLT	05618Y1
EXP-HOME BLT	05618JF	EXP-HOME BLT	05618MC	EXP-HOME BLT	05618S4	EXP-HOME BLT	05618UJ	EXP-HOME BLT	05618Y2
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EXP-HOME BLT	05618JH	EXP-HOME BLT	05618MG	EXP-HOME BLT	05618S7	EXP-HOME BLT	05618V3	EXP-HOME BLT	05618Y4
EXP-HOME BLT	05618JJ	EXP-HOME BLT	05618MH	EXP-HOME BLT	05618S8	EXP-HOME BLT	05618V4	EXP-HOME BLT	05618Y6
EXP-HOME BLT	05618JM	EXP-HOME BLT	05618MM	EXP-HOME BLT	05618S9	EXP-HOME BLT	05618V6	EXP-HOME BLT	05618Y8
EXP-HOME BLT	05618JQ	EXP-HOME BLT	05618MN	EXP-HOME BLT	05618SB	EXP-HOME BLT	05618V8	EXP-HOME BLT	05618YG
EXP-HOME BLT	05618JU	EXP-HOME BLT	05618MP	EXP-HOME BLT	05618SC	EXP-HOME BLT	05618V9	EXP-HOME BLT	05618YJ
EXP-HOME BLT	05618JY	EXP-HOME BLT	05618MQ	EXP-HOME BLT	05618SE	EXP-HOME BLT	05618VA	EXP-HOME BLT	05618YK
EXP-HOME BLT	05618K2	EXP-HOME BLT	05618MU	EXP-HOME BLT	05618SF	EXP-HOME BLT	05618VB	EXP-HOME BLT	05618YV
EXP-HOME BLT	05618K5	EXP-HOME BLT	05618MV	EXP-HOME BLT	05618SG	EXP-HOME BLT	05618VJ	EXP-HOME BLT	05618YX
EXP-HOME BLT	05618KA	EXP-HOME BLT	05618MW	EXP-HOME BLT	05618SH	EXP-HOME BLT	05618VY	EXP-HOME BLT	05618Z4
EXP-HOME BLT	05618KB	EXP-HOME BLT	05618N1	EXP-HOME BLT	05618SN	EXP-HOME BLT	05618W	EXP-HOME BLT	05618Z5
EXP-HOME BLT	05618KE	EXP-HOME BLT	05618N3	EXP-HOME BLT	05618SQ	EXP-HOME BLT	05618VJ	EXP-HOME BLT	05618Z7
EXP-HOME BLT	05618KF	EXP-HOME BLT	05618N4	EXP-HOME BLT	05618SS	EXP-HOME BLT	05618VJ	EXP-HOME BLT	
		EXP-HOME BLT	05618N6	EXP-HOME BLT	05618ST	EXP-HOME BLT	05618VJ	EXP-HOME BLT	
		EXP-HOME BLT	05618N6	EXP-HOME BLT	05618SY	EXP-HOME BLT	05618VJ	EXP-HOME BLT	

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05618ZF	EXP-HOME BLT	0562034	EXP-HOME BLT	056208D	EXP-HOME BLT	05620EG
EXP-HOME BLT	05618ZG	EXP-HOME BLT	0562036	EXP-HOME BLT	056208E	EXP-HOME BLT	05620EN
EXP-HOME BLT	05618ZH	EXP-HOME BLT	056203A	EXP-HOME BLT	056208H	EXP-HOME BLT	05620EP
EXP-HOME BLT	05618ZP	EXP-HOME BLT	056203B	EXP-HOME BLT	056208J	EXP-HOME BLT	05620EW
EXP-HOME BLT	05618ZR	EXP-HOME BLT	0562046	EXP-HOME BLT	056208K	EXP-HOME BLT	05620EX
EXP-HOME BLT	05618ZT	EXP-HOME BLT	0562047	EXP-HOME BLT	056208M	EXP-HOME BLT	05620FA
EXP-HOME BLT	05618ZU	EXP-HOME BLT	0562054	EXP-HOME BLT	056208P	EXP-HOME BLT	05620FC
EXP-HOME BLT	05618ZX	EXP-HOME BLT	0562056	EXP-HOME BLT	056208Q	EXP-HOME BLT	05620FE
EXP-HOME BLT	0561901	EXP-HOME BLT	0562058	EXP-HOME BLT	056208R	EXP-HOME BLT	05620FF
EXP-HOME BLT	0561902	EXP-HOME BLT	0562059	EXP-HOME BLT	056208T	EXP-HOME BLT	05620FG
EXP-HOME BLT	0561903	EXP-HOME BLT	0562061	EXP-HOME BLT	056208U	EXP-HOME BLT	05620FK
EXP-HOME BLT	0561905	EXP-HOME BLT	0562062	EXP-HOME BLT	056208V	EXP-HOME BLT	05620FM
EXP-HOME BLT	0561908	EXP-HOME BLT	0562066	EXP-HOME BLT	056208W	EXP-HOME BLT	05620FN
EXP-HOME BLT	05619AC	EXP-HOME BLT	0562070	EXP-HOME BLT	056208X	EXP-HOME BLT	05620FP
EXP-HOME BLT	05619AD	EXP-HOME BLT	0562071	EXP-HOME BLT	056208Z	EXP-HOME BLT	05620FS
EXP-HOME BLT	05619AE	EXP-HOME BLT	0562074	EXP-HOME BLT	05620CA	EXP-HOME BLT	05620FT
EXP-HOME BLT	05619AG	EXP-HOME BLT	0562075	EXP-HOME BLT	05620CB	EXP-HOME BLT	05620FY
EXP-HOME BLT	05619AJ	EXP-HOME BLT	0562076	EXP-HOME BLT	05620CC	EXP-HOME BLT	05620GB
EXP-HOME BLT	05619AP	EXP-HOME BLT	0562077	EXP-HOME BLT	05620CH	EXP-HOME BLT	05620GD
EXP-HOME BLT	05619AR	EXP-HOME BLT	0562078	EXP-HOME BLT	05620CJ	EXP-HOME BLT	05620GF
EXP-HOME BLT	05619AV	EXP-HOME BLT	0562079	EXP-HOME BLT	05620CK	EXP-HOME BLT	05620GH
EXP-HOME BLT	0562002	EXP-HOME BLT	0562088	EXP-HOME BLT	05620CM	EXP-HOME BLT	05620GJ
EXP-HOME BLT	0562011	EXP-HOME BLT	0562089	EXP-HOME BLT	05620CN	EXP-HOME BLT	05620GQ
EXP-HOME BLT	0562015	EXP-HOME BLT	0562091	EXP-HOME BLT	05620CQ	EXP-HOME BLT	05620GT
EXP-HOME BLT	056201B	EXP-HOME BLT	0562095	EXP-HOME BLT	05620CS	EXP-HOME BLT	05620GV
EXP-HOME BLT	056201C	EXP-HOME BLT	05620AC	EXP-HOME BLT	05620CU	EXP-HOME BLT	05620GW
EXP-HOME BLT	056201G	EXP-HOME BLT	05620AD	EXP-HOME BLT	05620CW	EXP-HOME BLT	05620GX
EXP-HOME BLT	056201J	EXP-HOME BLT	05620AF	EXP-HOME BLT	05620CY	EXP-HOME BLT	05620HH
EXP-HOME BLT	056201M	EXP-HOME BLT	05620AG	EXP-HOME BLT	05620CZ	EXP-HOME BLT	05620HK
EXP-HOME BLT	056201Q	EXP-HOME BLT	05620AJ	EXP-HOME BLT	05620DQ	EXP-HOME BLT	05620HM
EXP-HOME BLT	056201U	EXP-HOME BLT	05620AL	EXP-HOME BLT	05620DE	EXP-HOME BLT	05620HN
EXP-HOME BLT	056201X	EXP-HOME BLT	05620AM	EXP-HOME BLT	05620DG	EXP-HOME BLT	05620HP
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EXP-HOME BLT	0562025	EXP-HOME BLT	05620AU	EXP-HOME BLT	05620DQ	EXP-HOME BLT	05620HW
EXP-HOME BLT	056202B	EXP-HOME BLT	05620AV	EXP-HOME BLT	05620DX	EXP-HOME BLT	05620JB
EXP-HOME BLT	056202E	EXP-HOME BLT	05620AW	EXP-HOME BLT	05620DY	EXP-HOME BLT	05620JF
EXP-HOME BLT	056202H	EXP-HOME BLT	05620AX	EXP-HOME BLT	05620EY	EXP-HOME BLT	05620JJ
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EXP-HOME BLT	056202N	EXP-HOME BLT	05620BB	EXP-HOME BLT	05620ED	EXP-HOME BLT	05620JR
EXP-HOME BLT	0562030	EXP-HOME BLT	05620BC	EXP-HOME BLT	05620EE	EXP-HOME BLT	05620JS

AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE
EXP-HOME	BLT	05620NH	05620SR	EXP-HOME	BLT	05620YE	EXP-HOME	BLT	0562185	EXP-HOME	BLT	0562242	EXP-HOME	BLT	0562242
EXP-HOME	BLT	05620NM	05620SV	EXP-HOME	BLT	05620YK	EXP-HOME	BLT	0562188	EXP-HOME	BLT	0562245	EXP-HOME	BLT	0562245
EXP-HOME	BLT	05620NP	05620SX	EXP-HOME	BLT	05620YM	EXP-HOME	BLT	0562190	EXP-HOME	BLT	056224J	EXP-HOME	BLT	056224J
EXP-HOME	BLT	05620NQ	05620ST	EXP-HOME	BLT	05620YN	EXP-HOME	BLT	0562193	EXP-HOME	BLT	056224K	EXP-HOME	BLT	056224K
EXP-HOME	BLT	05620NS	05620TB	EXP-HOME	BLT	05620YQ	EXP-HOME	BLT	0562194	EXP-HOME	BLT	056224L	EXP-HOME	BLT	056224L
EXP-HOME	BLT	05620NT	05620TD	EXP-HOME	BLT	05620YS	EXP-HOME	BLT	0562202	EXP-HOME	BLT	056224M	EXP-HOME	BLT	056224M
EXP-HOME	BLT	05620PA	05620TF	EXP-HOME	BLT	05620YV	EXP-HOME	BLT	0562203	EXP-HOME	BLT	056224P	EXP-HOME	BLT	056224P
EXP-HOME	BLT	05620PB	05620TK	EXP-HOME	BLT	05620ZD	EXP-HOME	BLT	0562207	EXP-HOME	BLT	056224S	EXP-HOME	BLT	056224S
EXP-HOME	BLT	05620PC	05620TL	EXP-HOME	BLT	05620ZF	EXP-HOME	BLT	0562212	EXP-HOME	BLT	056224X	EXP-HOME	BLT	056224X
EXP-HOME	BLT	05620PF	05620TN	EXP-HOME	BLT	05620ZQ	EXP-HOME	BLT	0562214	EXP-HOME	BLT	056224Y	EXP-HOME	BLT	056224Y
EXP-HOME	BLT	05620PH	05620TB	EXP-HOME	BLT	05620ZR	EXP-HOME	BLT	0562216	EXP-HOME	BLT	0562256	EXP-HOME	BLT	0562256
EXP-HOME	BLT	05620PK	05620TV	EXP-HOME	BLT	05620ZT	EXP-HOME	BLT	0562217	EXP-HOME	BLT	0562257	EXP-HOME	BLT	0562257
EXP-HOME	BLT	05620PL	05620TX	EXP-HOME	BLT	05620ZU	EXP-HOME	BLT	056221A	EXP-HOME	BLT	056225C	EXP-HOME	BLT	056225C
EXP-HOME	BLT	05620PN	05620UB	EXP-HOME	BLT	0562102	EXP-HOME	BLT	056221E	EXP-HOME	BLT	056225D	EXP-HOME	BLT	056225D
EXP-HOME	BLT	05620PX	05620UC	EXP-HOME	BLT	0562105	EXP-HOME	BLT	056221F	EXP-HOME	BLT	056225F	EXP-HOME	BLT	056225F
EXP-HOME	BLT	05620QA	05620UM	EXP-HOME	BLT	0562108	EXP-HOME	BLT	056221G	EXP-HOME	BLT	056225H	EXP-HOME	BLT	056225H
EXP-HOME	BLT	05620QZ	05620UT	EXP-HOME	BLT	0562110	EXP-HOME	BLT	056221N	EXP-HOME	BLT	056225N	EXP-HOME	BLT	056225N
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EXP-HOME	BLT	05620QC	05620VA	EXP-HOME	BLT	0562114	EXP-HOME	BLT	056221Q	EXP-HOME	BLT	056225S	EXP-HOME	BLT	056225S
EXP-HOME	BLT	05620QD	05620VB	EXP-HOME	BLT	0562115	EXP-HOME	BLT	056221S	EXP-HOME	BLT	056225T	EXP-HOME	BLT	056225T
EXP-HOME	BLT	05620QE	05620VC	EXP-HOME	BLT	0562119	EXP-HOME	BLT	0562222	EXP-HOME	BLT	056225U	EXP-HOME	BLT	056225U
EXP-HOME	BLT	05620QF	05620VD	EXP-HOME	BLT	0562121	EXP-HOME	BLT	0562224	EXP-HOME	BLT	056225V	EXP-HOME	BLT	056225V
EXP-HOME	BLT	05620QG	05620VE	EXP-HOME	BLT	0562123	EXP-HOME	BLT	0562225	EXP-HOME	BLT	056225W	EXP-HOME	BLT	056225W
EXP-HOME	BLT	05620QH	05620VG	EXP-HOME	BLT	0562125	EXP-HOME	BLT	056222C	EXP-HOME	BLT	056225X	EXP-HOME	BLT	056225X
EXP-HOME	BLT	05620QI	05620VH	EXP-HOME	BLT	0562129	EXP-HOME	BLT	056222K	EXP-HOME	BLT	056225Z	EXP-HOME	BLT	056225Z
EXP-HOME	BLT	05620QJ	05620VM	EXP-HOME	BLT	0562132	EXP-HOME	BLT	056222M	EXP-HOME	BLT	0562260	EXP-HOME	BLT	0562260
EXP-HOME	BLT	05620QK	05620VQ	EXP-HOME	BLT	0562133	EXP-HOME	BLT	056222M	EXP-HOME	BLT	0562261	EXP-HOME	BLT	0562261
EXP-HOME	BLT	05620QZ	05620VX	EXP-HOME	BLT	0562134	EXP-HOME	BLT	056222Q	EXP-HOME	BLT	0562263	EXP-HOME	BLT	0562263
EXP-HOME	BLT	05620RA	05620W	EXP-HOME	BLT	0562135	EXP-HOME	BLT	056222P	EXP-HOME	BLT	0562266	EXP-HOME	BLT	0562266
EXP-HOME	BLT	05620RE	05620VY	EXP-HOME	BLT	0562137	EXP-HOME	BLT	056222U	EXP-HOME	BLT	0562268	EXP-HOME	BLT	0562268
EXP-HOME	BLT	05620RG	05620VZ	EXP-HOME	BLT	0562140	EXP-HOME	BLT	056222W	EXP-HOME	BLT	056226J	EXP-HOME	BLT	056226J
EXP-HOME	BLT	05620RL	05620XA	EXP-HOME	BLT	0562144	EXP-HOME	BLT	056222W	EXP-HOME	BLT	056226K	EXP-HOME	BLT	056226K
EXP-HOME	BLT	05620RP	05620XB	EXP-HOME	BLT	0562148	EXP-HOME	BLT	0562230	EXP-HOME	BLT	056226L	EXP-HOME	BLT	056226L
EXP-HOME	BLT	05620RQ	05620XF	EXP-HOME	BLT	0562152	EXP-HOME	BLT	0562239	EXP-HOME	BLT	056226X	EXP-HOME	BLT	056226X
EXP-HOME	BLT	05620RX	05620XG	EXP-HOME	BLT	0562153	EXP-HOME	BLT	056223A	EXP-HOME	BLT	056226Z	EXP-HOME	BLT	056226Z
EXP-HOME	BLT	05620RY	05620XH	EXP-HOME	BLT	0562154	EXP-HOME	BLT	056223F	EXP-HOME	BLT	0562272	EXP-HOME	BLT	0562272
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EXP-HOME	BLT	05620S	05620XM	EXP-HOME	BLT	0562170	EXP-HOME	BLT	056223R	EXP-HOME	BLT	056227C	EXP-HOME	BLT	056227C
EXP-HOME	BLT	05620SD	05620XP	EXP-HOME	BLT	0562172	EXP-HOME	BLT	056223V	EXP-HOME	BLT	056227D	EXP-HOME	BLT	056227D
EXP-HOME	BLT	05620SE	05620XN	EXP-HOME	BLT	0562173	EXP-HOME	BLT	056223W	EXP-HOME	BLT	056227E	EXP-HOME	BLT	056227E
EXP-HOME	BLT	05620SG	05620XO	EXP-HOME	BLT	0562175	EXP-HOME	BLT	056223X	EXP-HOME	BLT	056227F	EXP-HOME	BLT	056227F
EXP-HOME	BLT	05620SH	05620XX	EXP-HOME	BLT	0562177	EXP-HOME	BLT	056223Y	EXP-HOME	BLT	056227G	EXP-HOME	BLT	056227G
EXP-HOME	BLT	05620SK	05620XZ	EXP-HOME	BLT	0562179	EXP-HOME	BLT	056223Z	EXP-HOME	BLT	056227H	EXP-HOME	BLT	056227H
EXP-HOME	BLT	05620SL	05620YA	EXP-HOME	BLT	0562180	EXP-HOME	BLT	0562241	EXP-HOME	BLT	0562281	EXP-HOME	BLT	0562281
EXP-HOME	BLT	05620SM	05620YC	EXP-HOME	BLT		EXP-HOME	BLT		EXP-HOME	BLT		EXP-HOME	BLT	

AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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EXP-HOME BLT	0562283	EXP-HOME BLT	05622CM	EXP-HOME BLT	0562330	EXP-HOME BLT	05623C5
EXP-HOME BLT	0562284	EXP-HOME BLT	05622CQ	EXP-HOME BLT	0562334	EXP-HOME BLT	05623C7
EXP-HOME BLT	0562286	EXP-HOME BLT	05622CS	EXP-HOME BLT	0562335	EXP-HOME BLT	05623CB
EXP-HOME BLT	0562288	EXP-HOME BLT	05622CT	EXP-HOME BLT	0562337	EXP-HOME BLT	05623CF
EXP-HOME BLT	056228D	EXP-HOME BLT	05622CU	EXP-HOME BLT	056234C	EXP-HOME BLT	05623CG
EXP-HOME BLT	056228E	EXP-HOME BLT	05622CV	EXP-HOME BLT	0562354	EXP-HOME BLT	05623G6
EXP-HOME BLT	056228K	EXP-HOME BLT	05622CY	EXP-HOME BLT	0562355	EXP-HOME BLT	05623G8
EXP-HOME BLT	056228L	EXP-HOME BLT	05622DE	EXP-HOME BLT	0562356	EXP-HOME BLT	05623GA
EXP-HOME BLT	056228N	EXP-HOME BLT	05622DF	EXP-HOME BLT	0562357	EXP-HOME BLT	05623GB
EXP-HOME BLT	056228P	EXP-HOME BLT	05622DG	EXP-HOME BLT	0562359	EXP-HOME BLT	05623GG
EXP-HOME BLT	056228S	EXP-HOME BLT	05622DH	EXP-HOME BLT	0562361	EXP-HOME BLT	05623GJ
EXP-HOME BLT	056228Y	EXP-HOME BLT	05622DM	EXP-HOME BLT	0562364	EXP-HOME BLT	05623GQ
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EXP-HOME BLT	0562290	EXP-HOME BLT	05622DP	EXP-HOME BLT	0562379	EXP-HOME BLT	05623GT
EXP-HOME BLT	0562294	EXP-HOME BLT	05622DV	EXP-HOME BLT	0562382	EXP-HOME BLT	05623GU
EXP-HOME BLT	056229F	EXP-HOME BLT	05622DX	EXP-HOME BLT	0562384	EXP-HOME BLT	05623GV
EXP-HOME BLT	056229J	EXP-HOME BLT	05622DY	EXP-HOME BLT	0562386	EXP-HOME BLT	05623H1
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EXP-HOME BLT	056229Y	EXP-HOME BLT	05622EH	EXP-HOME BLT	05623A1	EXP-HOME BLT	05623HJ
EXP-HOME BLT	056229D	EXP-HOME BLT	05622EJ	EXP-HOME BLT	05623A2	EXP-HOME BLT	05623J5
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EXP-HOME BLT	05622AJ	EXP-HOME BLT	05622ES	EXP-HOME BLT	05623A9	EXP-HOME BLT	05623JG
EXP-HOME BLT	05622AN	EXP-HOME BLT	05622ET	EXP-HOME BLT	05623AA	EXP-HOME BLT	05623JK
EXP-HOME BLT	05622AP	EXP-HOME BLT	05622EU	EXP-HOME BLT	05623AA	EXP-HOME BLT	05623JL
EXP-HOME BLT	05622AU	EXP-HOME BLT	05622EX	EXP-HOME BLT	05623AC	EXP-HOME BLT	05623JS
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EXP-HOME BLT	05622BL	EXP-HOME BLT	0562304	EXP-HOME BLT	05623AP	EXP-HOME BLT	05623L3
EXP-HOME BLT	05622BP	EXP-HOME BLT	0562309	EXP-HOME BLT	05623AU	EXP-HOME BLT	05623L6
EXP-HOME BLT	05622BQ	EXP-HOME BLT	0562312	EXP-HOME BLT	05623BA	EXP-HOME BLT	05623L7
EXP-HOME BLT	05622BB	EXP-HOME BLT	0562313	EXP-HOME BLT	05623BF	EXP-HOME BLT	05623LG
EXP-HOME BLT	05622BX	EXP-HOME BLT	0562315	EXP-HOME BLT	05623B8	EXP-HOME BLT	05623LJ
EXP-HOME BLT	05622BZ	EXP-HOME BLT	0562320	EXP-HOME BLT	05623BP	EXP-HOME BLT	05623LP
EXP-HOME BLT	05622C2	EXP-HOME BLT	0562322	EXP-HOME BLT	05623B7	EXP-HOME BLT	05623LS
EXP-HOME BLT	05622CC	EXP-HOME BLT	0562323	EXP-HOME BLT	05623BV	EXP-HOME BLT	05623LU
EXP-HOME BLT	05622CF	EXP-HOME BLT	0562328	EXP-HOME BLT	05623BX	EXP-HOME BLT	05623LX
EXP-HOME BLT	05622CH	EXP-HOME BLT	0562329	EXP-HOME BLT	05623BY	EXP-HOME BLT	05623M9
				EXP-HOME BLT	05623C1	EXP-HOME BLT	05623HQ

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05623MU	EXP-HOME BLT	05623WF	EXP-HOME BLT	0562524	EXP-HOME BLT	0562671	EXP-HOME BLT	0562775	EXP-HOME BLT	0562775
EXP-HOME BLT	05623WZ	EXP-HOME BLT	05623XK	EXP-HOME BLT	0562530	EXP-HOME BLT	0562672	EXP-HOME BLT	0562780	EXP-HOME BLT	0562780
EXP-HOME BLT	05623NB	EXP-HOME BLT	05623Y7	EXP-HOME BLT	0562534	EXP-HOME BLT	0562674	EXP-HOME BLT	0562787	EXP-HOME BLT	0562787
EXP-HOME BLT	05623NH	EXP-HOME BLT	05623YQ	EXP-HOME BLT	0562537	EXP-HOME BLT	0562680	EXP-HOME BLT	0562791	EXP-HOME BLT	0562791
EXP-HOME BLT	05623NJ	EXP-HOME BLT	05623YW	EXP-HOME BLT	0562538	EXP-HOME BLT	0562681	EXP-HOME BLT	0562795	EXP-HOME BLT	0562795
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EXP-HOME BLT	05623P8	EXP-HOME BLT	0562417	EXP-HOME BLT	0562554	EXP-HOME BLT	0562705	EXP-HOME BLT	056279Q	EXP-HOME BLT	056279Q
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EXP-HOME BLT	05623PJ	EXP-HOME BLT	0562430	EXP-HOME BLT	0562559	EXP-HOME BLT	0562713	EXP-HOME BLT	056279X	EXP-HOME BLT	056279X
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EXP-HOME BLT	05623Q8	EXP-HOME BLT	0562433	EXP-HOME BLT	0562563	EXP-HOME BLT	0562715	EXP-HOME BLT	0562811	EXP-HOME BLT	0562811
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EXP-HOME BLT	05623RH	EXP-HOME BLT	0562460	EXP-HOME BLT	0562583	EXP-HOME BLT	0562733	EXP-HOME BLT	0562832	EXP-HOME BLT	0562832
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EXP-HOME BLT	05623RS	EXP-HOME BLT	0562463	EXP-HOME BLT	0562603	EXP-HOME BLT	0562738	EXP-HOME BLT	0562835	EXP-HOME BLT	0562835
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EXP-HOME BLT	05623SW	EXP-HOME BLT	0562478	EXP-HOME BLT	0562623	EXP-HOME BLT	0562745	EXP-HOME BLT	0562895	EXP-HOME BLT	0562895
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EXP-HOME BLT	05623UX	EXP-HOME BLT	05624J3	EXP-HOME BLT	0562654	EXP-HOME BLT	0562764	EXP-HOME BLT	0562914	EXP-HOME BLT	0562914
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EXP-HOME BLT	05623VE	EXP-HOME BLT	0562521	EXP-HOME BLT	0562660	EXP-HOME BLT	0562769	EXP-HOME BLT	0562922	EXP-HOME BLT	0562922
EXP-HOME BLT	05623VF	EXP-HOME BLT	0562522	EXP-HOME BLT	0562661	EXP-HOME BLT	0562771	EXP-HOME BLT	0562924	EXP-HOME BLT	0562924
EXP-HOME BLT	05623W3	EXP-HOME BLT	0562523	EXP-HOME BLT	0562662	EXP-HOME BLT	0562773	EXP-HOME BLT	0562928	EXP-HOME BLT	0562928

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	0562929	EXP-HOME BLT	056298X	EXP-HOME BLT	0563323	EXP-HOME BLT	0563481	EXP-HOME BLT	0563584
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EXP-HOME BLT	0562945	EXP-HOME BLT	05629CL	EXP-HOME BLT	0563402	EXP-HOME BLT	0563502	EXP-HOME BLT	05635A4
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EXP-HOME BLT	0562954	EXP-HOME BLT	05629CS	EXP-HOME BLT	0563405	EXP-HOME BLT	0563508	EXP-HOME BLT	05635D1
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									0563643

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	0563644	EXP-HOME BLT	05637AK	EXP-HOME BLT	05637E6	EXP-HOME BLT	05637T6
EXP-HOME BLT	0563646	EXP-HOME BLT	05637AL	EXP-HOME BLT	05637E9	EXP-HOME BLT	0563801
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EXP-HOME BLT	0563651	EXP-HOME BLT	05637AN	EXP-HOME BLT	05637EE	EXP-HOME BLT	0563805
EXP-HOME BLT	0563653	EXP-HOME BLT	05637AP	EXP-HOME BLT	05637EJ	EXP-HOME BLT	0563807
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EXP-HOME BLT	0563662	EXP-HOME BLT	05637BA	EXP-HOME BLT	05637EP	EXP-HOME BLT	0564010
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EXP-HOME BLT	0563706	EXP-HOME BLT	05637CQ	EXP-HOME BLT	05637L1	EXP-HOME BLT	0564033
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EXP-HOME BLT	0563728	EXP-HOME BLT	05637CX	EXP-HOME BLT	05637L8	EXP-HOME BLT	0564041
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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05644GA	EXP-HOME BLT	05644PB	EXP-HOME BLT	05644VB	EXP-HOME BLT	05645B7
EXP-HOME BLT	05644GF	EXP-HOME BLT	05644PE	EXP-HOME BLT	0564501	EXP-HOME BLT	05645B8
EXP-HOME BLT	05644GL	EXP-HOME BLT	05644PG	EXP-HOME BLT	0564505	EXP-HOME BLT	05645BA
EXP-HOME BLT	05644HC	EXP-HOME BLT	05644PK	EXP-HOME BLT	0564509	EXP-HOME BLT	05645BB
EXP-HOME BLT	05644HL	EXP-HOME BLT	05644PL	EXP-HOME BLT	0564512	EXP-HOME BLT	05645BD
EXP-HOME BLT	05644HM	EXP-HOME BLT	05644PR	EXP-HOME BLT	0564516	EXP-HOME BLT	05645BQ
EXP-HOME BLT	05644HT	EXP-HOME BLT	05644PV	EXP-HOME BLT	056451A	EXP-HOME BLT	05645BM
EXP-HOME BLT	05644HV	EXP-HOME BLT	05644PX	EXP-HOME BLT	0564526	EXP-HOME BLT	05645BN
EXP-HOME BLT	05644HY	EXP-HOME BLT	05644PZ	EXP-HOME BLT	0564527	EXP-HOME BLT	05645BU
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EXP-HOME BLT	05644JV	EXP-HOME BLT	05644RE	EXP-HOME BLT	0564556	EXP-HOME BLT	05645CE
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EXP-HOME BLT	05644NU	EXP-HOME BLT	05644UD	EXP-HOME BLT	05645B4	EXP-HOME BLT	05645ET
EXP-HOME BLT	05644NZ	EXP-HOME BLT	05644UE	EXP-HOME BLT	05645B5	EXP-HOME BLT	05645F1
EXP-HOME BLT	05644PA	EXP-HOME BLT	05644VA	EXP-HOME BLT	05645B6	EXP-HOME BLT	05645F2
EXP-HOME BLT	05645F3	EXP-HOME BLT	05645F4	EXP-HOME BLT	05645F5	EXP-HOME BLT	05645F6
EXP-HOME BLT	05645F5	EXP-HOME BLT	05645F6	EXP-HOME BLT	05645F7	EXP-HOME BLT	05645F7
EXP-HOME BLT	05645FB	EXP-HOME BLT	05645F7	EXP-HOME BLT	05645F8	EXP-HOME BLT	05

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05647LD	EXP-HOME BLT	05647VU	EXP-HOME BLT	056481P	EXP-HOME BLT	0564883	EXP-HOME BLT	05648FZ
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EXP-HOME BLT	05647MH	EXP-HOME BLT	05647W7	EXP-HOME BLT	056482A	EXP-HOME BLT	056488L	EXP-HOME BLT	05648GY
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EXP-HOME BLT	05647MR	EXP-HOME BLT	05647W9	EXP-HOME BLT	056482F	EXP-HOME BLT	05648C3	EXP-HOME BLT	05648H4
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EXP-HOME BLT	05647N7	EXP-HOME BLT	05647W4	EXP-HOME BLT	056482M	EXP-HOME BLT	05648C7	EXP-HOME BLT	05648HG
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EXP-HOME BLT	05647PS	EXP-HOME BLT	05647XQ	EXP-HOME BLT	0564845	EXP-HOME BLT	05648D9	EXP-HOME BLT	05648J2
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EXP-HOME BLT	05647V5	EXP-HOME BLT	056481K	EXP-HOME BLT	05648AX	EXP-HOME BLT	05648FS	EXP-HOME BLT	05648KY
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EXP-HOME BLT	05647VQ	EXP-HOME BLT	056481M	EXP-HOME BLT	05648B2	EXP-HOME BLT	05648FU	EXP-HOME BLT	05648LE
EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	05648LL

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05649DB	EXP-HOME BLT	0565082	EXP-HOME BLT	05650H9	EXP-HOME BLT	0565212	EXP-HOME BLT	05653H5
EXP-HOME BLT	05649EJ	EXP-HOME BLT	0565083	EXP-HOME BLT	05650J2	EXP-HOME BLT	0565220	EXP-HOME BLT	05653H9
EXP-HOME BLT	0565001	EXP-HOME BLT	0565087	EXP-HOME BLT	05650J3	EXP-HOME BLT	0565233	EXP-HOME BLT	05653J2
EXP-HOME BLT	0565003	EXP-HOME BLT	0565089	EXP-HOME BLT	05650J4	EXP-HOME BLT	0565236	EXP-HOME BLT	05653J8
EXP-HOME BLT	0565004	EXP-HOME BLT	0565093	EXP-HOME BLT	05650J6	EXP-HOME BLT	0565305	EXP-HOME BLT	05653K2
EXP-HOME BLT	0565006	EXP-HOME BLT	0565094	EXP-HOME BLT	05650J7	EXP-HOME BLT	0565306	EXP-HOME BLT	05653L6
EXP-HOME BLT	0565007	EXP-HOME BLT	0565095	EXP-HOME BLT	05650K5	EXP-HOME BLT	0565307	EXP-HOME BLT	05653L8
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EXP-HOME BLT	0565030	EXP-HOME BLT	05650C6	EXP-HOME BLT	05650M9	EXP-HOME BLT	0565337	EXP-HOME BLT	0565419
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EXP-HOME BLT	0565035	EXP-HOME BLT	05650C9	EXP-HOME BLT	05650N4	EXP-HOME BLT	0565342	EXP-HOME BLT	0565424
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EXP-HOME BLT	0565041	EXP-HOME BLT	05650D2	EXP-HOME BLT	05650N7	EXP-HOME BLT	0565356	EXP-HOME BLT	0565430
EXP-HOME BLT	0565042	EXP-HOME BLT	05650D3	EXP-HOME BLT	05650N9	EXP-HOME BLT	0565357	EXP-HOME BLT	0565432
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EXP-HOME BLT	0565074	EXP-HOME BLT	05650H4	EXP-HOME BLT	0565139	EXP-HOME BLT	05653F4	EXP-HOME BLT	0565521
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EXP-HOME BLT	0565076	EXP-HOME BLT	05650H8	EXP-HOME BLT	0565201	EXP-HOME BLT	05653G2	EXP-HOME BLT	0565528

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EXP-HOME	BLT	05655TS	EXP-HOME	BLT	05655W7	EXP-HOME	BLT	05655YX	EXP-HOME	BLT	0565811	EXP-HOME	BLT	056588B
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EXP-HOME	BLT	05655UV	EXP-HOME	BLT	05655XY	EXP-HOME	BLT	0565716	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655UW	EXP-HOME	BLT	05655Y1	EXP-HOME	BLT	0565738	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655UX	EXP-HOME	BLT	05655Y5	EXP-HOME	BLT	0565740	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655UY	EXP-HOME	BLT	05655V7	EXP-HOME	BLT	0565763	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655V8	EXP-HOME	BLT	05655V8	EXP-HOME	BLT	0565759	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655V9	EXP-HOME	BLT	05655VA	EXP-HOME	BLT	0565760	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VA	EXP-HOME	BLT	05655V1	EXP-HOME	BLT	0565776	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VB	EXP-HOME	BLT	05655V5	EXP-HOME	BLT	0565738	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VC	EXP-HOME	BLT	05655V7	EXP-HOME	BLT	0565740	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
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EXP-HOME	BLT	05655VF	EXP-HOME	BLT	05655V1	EXP-HOME	BLT	0565776	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VH	EXP-HOME	BLT	05655V5	EXP-HOME	BLT	0565738	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VJ	EXP-HOME	BLT	05655V7	EXP-HOME	BLT	0565740	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VK	EXP-HOME	BLT	05655V8	EXP-HOME	BLT	0565759	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VL	EXP-HOME	BLT	05655VA	EXP-HOME	BLT	0565760	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VM	EXP-HOME	BLT	05655V1	EXP-HOME	BLT	0565776	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655VZ	EXP-HOME	BLT	05655V5	EXP-HOME	BLT	0565738	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655W1	EXP-HOME	BLT	05655V7	EXP-HOME	BLT	0565740	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655W4	EXP-HOME	BLT	05655V8	EXP-HOME	BLT	0565759	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D
EXP-HOME	BLT	05655W6	EXP-HOME	BLT	05655VA	EXP-HOME	BLT	0565760	EXP-HOME	BLT	0565898	EXP-HOME	BLT	056588D

AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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AIRCRAFT NAME FAA CODE

B-69

AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	056596G	EXP-HOME BLT	056599M	EXP-HOME BLT	05659H7	EXP-HOME BLT	05659Q5
EXP-HOME BLT	056596H	EXP-HOME BLT	056599N	EXP-HOME BLT	05659J3	EXP-HOME BLT	05659Q7
EXP-HOME BLT	056596K	EXP-HOME BLT	056599S	EXP-HOME BLT	05659J4	EXP-HOME BLT	05659Q8
EXP-HOME BLT	056596P	EXP-HOME BLT	056599T	EXP-HOME BLT	05659J8	EXP-HOME BLT	05659Q9
EXP-HOME BLT	056596S	EXP-HOME BLT	056599U	EXP-HOME BLT	05659K4	EXP-HOME BLT	05659QB
EXP-HOME BLT	056596V	EXP-HOME BLT	05659A1	EXP-HOME BLT	05659K6	EXP-HOME BLT	05659QE
EXP-HOME BLT	056596Y	EXP-HOME BLT	05659A4	EXP-HOME BLT	05659K7	EXP-HOME BLT	05659QG
EXP-HOME BLT	056596Z	EXP-HOME BLT	05659A6	EXP-HOME BLT	05659K8	EXP-HOME BLT	05659QH
EXP-HOME BLT	0565971	EXP-HOME BLT	05659AB	EXP-HOME BLT	05659K9	EXP-HOME BLT	05659QS
EXP-HOME BLT	0565974	EXP-HOME BLT	05659AH	EXP-HOME BLT	05659L3	EXP-HOME BLT	05659QV
EXP-HOME BLT	0565979	EXP-HOME BLT	05659AJ	EXP-HOME BLT	05659L4	EXP-HOME BLT	05659QW
EXP-HOME BLT	056597B	EXP-HOME BLT	05659AL	EXP-HOME BLT	05659M1	EXP-HOME BLT	05659QX
EXP-HOME BLT	056597H	EXP-HOME BLT	05659AN	EXP-HOME BLT	05659M4	EXP-HOME BLT	05659RD
EXP-HOME BLT	056597K	EXP-HOME BLT	0565985	EXP-HOME BLT	05659M6	EXP-HOME BLT	05659RE
EXP-HOME BLT	056597P	EXP-HOME BLT	056598B	EXP-HOME BLT	05659N8	EXP-HOME BLT	05659RH
EXP-HOME BLT	056597T	EXP-HOME BLT	0565987	EXP-HOME BLT	05659N1	EXP-HOME BLT	05659RN
EXP-HOME BLT	056597U	EXP-HOME BLT	0565988	EXP-HOME BLT	05659N6	EXP-HOME BLT	05659RP
EXP-HOME BLT	056597W	EXP-HOME BLT	0565989	EXP-HOME BLT	05659N9	EXP-HOME BLT	05659RQ
EXP-HOME BLT	056597X	EXP-HOME BLT	05659C2	EXP-HOME BLT	05659NS	EXP-HOME BLT	05659RT
EXP-HOME BLT	056597Y	EXP-HOME BLT	05659C7	EXP-HOME BLT	05659NU	EXP-HOME BLT	05659RV
EXP-HOME BLT	056597Z	EXP-HOME BLT	05659C9	EXP-HOME BLT	05659NW	EXP-HOME BLT	05659RY
EXP-HOME BLT	0565980	EXP-HOME BLT	05659D2	EXP-HOME BLT	05659NY	EXP-HOME BLT	05659S1
EXP-HOME BLT	0565981	EXP-HOME BLT	05659D3	EXP-HOME BLT	05659NZ	EXP-HOME BLT	05659S2
EXP-HOME BLT	0565982	EXP-HOME BLT	05659D7	EXP-HOME BLT	05659P2	EXP-HOME BLT	05659S5
EXP-HOME BLT	0565985	EXP-HOME BLT	05659D8	EXP-HOME BLT	05659P4	EXP-HOME BLT	05659S8
EXP-HOME BLT	0565986	EXP-HOME BLT	05659E1	EXP-HOME BLT	05659P5	EXP-HOME BLT	05659SB
EXP-HOME BLT	0565988	EXP-HOME BLT	05659E3	EXP-HOME BLT	05659P7	EXP-HOME BLT	05659SC
EXP-HOME BLT	056598A	EXP-HOME BLT	05659E4	EXP-HOME BLT	05659P9	EXP-HOME BLT	05659SJ
EXP-HOME BLT	056598E	EXP-HOME BLT	05659E8	EXP-HOME BLT	05659PC	EXP-HOME BLT	05659SL
EXP-HOME BLT	056598F	EXP-HOME BLT	05659E8	EXP-HOME BLT	05659PD	EXP-HOME BLT	05659SP
EXP-HOME BLT	056598G	EXP-HOME BLT	05659F1	EXP-HOME BLT	05659PH	EXP-HOME BLT	05659SR
EXP-HOME BLT	056598H	EXP-HOME BLT	05659F2	EXP-HOME BLT	05659PJ	EXP-HOME BLT	05659SW
EXP-HOME BLT	056598J	EXP-HOME BLT	05659F3	EXP-HOME BLT	05659PM	EXP-HOME BLT	05659SY
EXP-HOME BLT	056598P	EXP-HOME BLT	05659F5	EXP-HOME BLT	05659PN	EXP-HOME BLT	05659SZ
EXP-HOME BLT	056598T	EXP-HOME BLT	05659F8	EXP-HOME BLT	05659PP	EXP-HOME BLT	05659T1
EXP-HOME BLT	056598U	EXP-HOME BLT	05659G2	EXP-HOME BLT	05659PQ	EXP-HOME BLT	05659T7
EXP-HOME BLT	056598X	EXP-HOME BLT	05659G3	EXP-HOME BLT	05659PZ	EXP-HOME BLT	05659TG
EXP-HOME BLT	0565993	EXP-HOME BLT	05659G6	EXP-HOME BLT	05659Q1	EXP-HOME BLT	05659TK
EXP-HOME BLT	0565996	EXP-HOME BLT	05659G9	EXP-HOME BLT	05659Q2	EXP-HOME BLT	05659TL
EXP-HOME BLT	0565998	EXP-HOME BLT	05659H1	EXP-HOME BLT	05659Q3	EXP-HOME BLT	05659TM
EXP-HOME BLT	0565999	EXP-HOME BLT	05659H3	EXP-HOME BLT	05659Q4	EXP-HOME BLT	05659TS
EXP-HOME BLT	056599E	EXP-HOME BLT	05659H4	EXP-HOME BLT	05659Q5	EXP-HOME BLT	05659TT

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	0566057	EXP-HOME BLT	0566162	EXP-HOME BLT	0566325	EXP-HOME BLT	056638S
EXP-HOME BLT	0566059	EXP-HOME BLT	0566164	EXP-HOME BLT	0566329	EXP-HOME BLT	056638V
EXP-HOME BLT	0566060	EXP-HOME BLT	0566166	EXP-HOME BLT	0566332	EXP-HOME BLT	056638W
EXP-HOME BLT	0566063	EXP-HOME BLT	0566170	EXP-HOME BLT	0566337	EXP-HOME BLT	05663CJ
EXP-HOME BLT	0566065	EXP-HOME BLT	0566171	EXP-HOME BLT	0566342	EXP-HOME BLT	05663CK
EXP-HOME BLT	0566066	EXP-HOME BLT	0566173	EXP-HOME BLT	0566344	EXP-HOME BLT	05663CT
EXP-HOME BLT	0566067	EXP-HOME BLT	0566174	EXP-HOME BLT	0566347	EXP-HOME BLT	05663C2
EXP-HOME BLT	0566068	EXP-HOME BLT	0566178	EXP-HOME BLT	0566348	EXP-HOME BLT	05663DA
EXP-HOME BLT	0566071	EXP-HOME BLT	0566182	EXP-HOME BLT	0566349	EXP-HOME BLT	05663DB
EXP-HOME BLT	0566075	EXP-HOME BLT	0566184	EXP-HOME BLT	0566352	EXP-HOME BLT	05663DC
EXP-HOME BLT	0566076	EXP-HOME BLT	0566188	EXP-HOME BLT	0566359	EXP-HOME BLT	05663DF
EXP-HOME BLT	0566077	EXP-HOME BLT	0566189	EXP-HOME BLT	0566362	EXP-HOME BLT	05663DJ
EXP-HOME BLT	0566078	EXP-HOME BLT	0566192	EXP-HOME BLT	0566367	EXP-HOME BLT	05663DK
EXP-HOME BLT	0566080	EXP-HOME BLT	0566193	EXP-HOME BLT	0566370	EXP-HOME BLT	05663DP
EXP-HOME BLT	0566081	EXP-HOME BLT	0566194	EXP-HOME BLT	0566380	EXP-HOME BLT	0566405
EXP-HOME BLT	0566101	EXP-HOME BLT	0566201	EXP-HOME BLT	0566381	EXP-HOME BLT	0566408
EXP-HOME BLT	0566103	EXP-HOME BLT	0566202	EXP-HOME BLT	0566384	EXP-HOME BLT	0566412
EXP-HOME BLT	0566104	EXP-HOME BLT	0566204	EXP-HOME BLT	0566386	EXP-HOME BLT	0566422
EXP-HOME BLT	0566106	EXP-HOME BLT	0566205	EXP-HOME BLT	0566387	EXP-HOME BLT	0566424
EXP-HOME BLT	0566107	EXP-HOME BLT	0566208	EXP-HOME BLT	0566389	EXP-HOME BLT	0566426
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EXP-HOME BLT	0566117	EXP-HOME BLT	0566213	EXP-HOME BLT	0566399	EXP-HOME BLT	0566436
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EXP-HOME BLT	0566122	EXP-HOME BLT	0566220	EXP-HOME BLT	05663AH	EXP-HOME BLT	0566461
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EXP-HOME BLT	0566205	EXP-HOME BLT	0566348	EXP-HOME BLT	05663T	EXP-HOME BLT	056655S
EXP-HOME BLT	0566207	EXP-HOME BLT	0566349	EXP-HOME BLT	05663U	EXP-HOME BLT	056655T
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EXP-HOME BLT	0566349	EXP-HOME BLT	0566420	EXP-HOME BLT	056705	EXP-HOME BLT	056658P
EXP-HOME BLT	0						

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	0567550	EXP-HOME BLT	056758J	EXP-HOME BLT	056756H	EXP-HOME BLT	05675PC
EXP-HOME BLT	0567553	EXP-HOME BLT	056758K	EXP-HOME BLT	056756I	EXP-HOME BLT	05675PH
EXP-HOME BLT	0567556	EXP-HOME BLT	056758R	EXP-HOME BLT	056756J	EXP-HOME BLT	05675PL
EXP-HOME BLT	0567559	EXP-HOME BLT	056758S	EXP-HOME BLT	056756K	EXP-HOME BLT	05675PN
EXP-HOME BLT	056755H	EXP-HOME BLT	056758U	EXP-HOME BLT	056756L	EXP-HOME BLT	05675PQ
EXP-HOME BLT	056755X	EXP-HOME BLT	056758W	EXP-HOME BLT	056756M	EXP-HOME BLT	05675PS
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EXP-HOME BLT	0567562	EXP-HOME BLT	05675C4	EXP-HOME BLT	056756O	EXP-HOME BLT	05675P3
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EXP-HOME BLT	056759I	EXP-HOME BLT	05675GE	EXP-HOME BLT	056759S	EXP-HOME BLT	05675UD
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EXP-HOME BLT	056759P	EXP-HOME BLT	05675GL	EXP-HOME BLT	056759Z	EXP-HOME BLT	05675UK
EXP-HOME BLT	056759Q	EXP-HOME BLT	05675GM	EXP-HOME BLT	056759A	EXP-HOME BLT	05675UL
EXP-HOME BLT	056759R	EXP-HOME BLT	05675GN	EXP-HOME BLT	056759B	EXP-HOME BLT	05675UM
EXP-HOME BLT	056759S	EXP-HOME BLT	05675GO	EXP-HOME BLT	056759C	EXP-HOME BLT	05675UN
EXP-HOME BLT	056759T	EXP-HOME BLT	05675GP	EXP-HOME BLT	056759D	EXP-HOME BLT	05675UO
EXP-HOME BLT	056759U	EXP-HOME BLT	05675GQ	EXP-HOME BLT	056759E	EXP-HOME BLT	05675UP
EXP-HOME BLT	056759V	EXP-HOME BLT	05675GR	EXP-HOME BLT	056759F	EXP-HOME BLT	05675UQ
EXP-HOME BLT	056759W	EXP-HOME BLT	05675GS	EXP-HOME BLT	056759G	EXP-HOME BLT	05675UR
EXP-HOME BLT	056759X	EXP-HOME BLT	05675GT	EXP-HOME BLT	056759H	EXP-HOME BLT	05675US
EXP-HOME BLT	056759Y	EXP-HOME BLT	05675GU	EXP-HOME BLT	056759I	EXP-HOME BLT	05675UT

[illegible]

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	05676RR	EXP-HOME BLT	05676V2	EXP-HOME BLT	0569029	EXP-HOME BLT	056904G	EXP-HOME BLT	0569097	EXP-HOME BLT	0569097
EXP-HOME BLT	05676RY	EXP-HOME BLT	05676V3	EXP-HOME BLT	056902A	EXP-HOME BLT	056904J	EXP-HOME BLT	0569098	EXP-HOME BLT	0569098
EXP-HOME BLT	05676S1	EXP-HOME BLT	05676V6	EXP-HOME BLT	056902E	EXP-HOME BLT	056904K	EXP-HOME BLT	056909B	EXP-HOME BLT	056909B
EXP-HOME BLT	05676S5	EXP-HOME BLT	05676V7	EXP-HOME BLT	056902G	EXP-HOME BLT	056904L	EXP-HOME BLT	056909D	EXP-HOME BLT	056909D
EXP-HOME BLT	05676SA	EXP-HOME BLT	05676V8	EXP-HOME BLT	056902H	EXP-HOME BLT	056904M	EXP-HOME BLT	056909E	EXP-HOME BLT	056909E
EXP-HOME BLT	05676SF	EXP-HOME BLT	05676V6	EXP-HOME BLT	056902J	EXP-HOME BLT	056904S	EXP-HOME BLT	056909G	EXP-HOME BLT	056909G
EXP-HOME BLT	05676SJ	EXP-HOME BLT	05676X2	EXP-HOME BLT	056902M	EXP-HOME BLT	056904U	EXP-HOME BLT	056909J	EXP-HOME BLT	056909J
EXP-HOME BLT	05676SK	EXP-HOME BLT	05676X9	EXP-HOME BLT	056902P	EXP-HOME BLT	056904Y	EXP-HOME BLT	056909K	EXP-HOME BLT	056909K
EXP-HOME BLT	05676SL	EXP-HOME BLT	05676Y3	EXP-HOME BLT	056902R	EXP-HOME BLT	0569050	EXP-HOME BLT	056909L	EXP-HOME BLT	056909L
EXP-HOME BLT	05676SM	EXP-HOME BLT	05676Z2	EXP-HOME BLT	056902S	EXP-HOME BLT	0569052	EXP-HOME BLT	056909P	EXP-HOME BLT	056909P
EXP-HOME BLT	05676SP	EXP-HOME BLT	05676Z5	EXP-HOME BLT	056902T	EXP-HOME BLT	0569053	EXP-HOME BLT	056909U	EXP-HOME BLT	056909U
EXP-HOME BLT	05676SQ	EXP-HOME BLT	0568003	EXP-HOME BLT	056902M	EXP-HOME BLT	0569054	EXP-HOME BLT	056909V	EXP-HOME BLT	056909V
EXP-HOME BLT	05676SR	EXP-HOME BLT	0568004	EXP-HOME BLT	056902Y	EXP-HOME BLT	0569056	EXP-HOME BLT	056909Y	EXP-HOME BLT	056909Y
EXP-HOME BLT	05676SV	EXP-HOME BLT	0568005	EXP-HOME BLT	0569030	EXP-HOME BLT	0569058	EXP-HOME BLT	05690A6	EXP-HOME BLT	05690A6
EXP-HOME BLT	05676SW	EXP-HOME BLT	0568006	EXP-HOME BLT	0569031	EXP-HOME BLT	0569058	EXP-HOME BLT	05690A7	EXP-HOME BLT	05690A7
EXP-HOME BLT	05676SX	EXP-HOME BLT	0568007	EXP-HOME BLT	0569033	EXP-HOME BLT	056905C	EXP-HOME BLT	05690B1	EXP-HOME BLT	05690B1
EXP-HOME BLT	05676SZ	EXP-HOME BLT	0569002	EXP-HOME BLT	0569034	EXP-HOME BLT	056905E	EXP-HOME BLT	05690B2	EXP-HOME BLT	05690B2
EXP-HOME BLT	05676T1	EXP-HOME BLT	0569004	EXP-HOME BLT	0569036	EXP-HOME BLT	056905M	EXP-HOME BLT	05690B8	EXP-HOME BLT	05690B8
EXP-HOME BLT	05676T9	EXP-HOME BLT	0569005	EXP-HOME BLT	0569037	EXP-HOME BLT	056905Q	EXP-HOME BLT	05690C4	EXP-HOME BLT	05690C4
EXP-HOME BLT	05676TA	EXP-HOME BLT	0569008	EXP-HOME BLT	056903A	EXP-HOME BLT	0569060	EXP-HOME BLT	05690C5	EXP-HOME BLT	05690C5
EXP-HOME BLT	05676TB	EXP-HOME BLT	0569011	EXP-HOME BLT	056903B	EXP-HOME BLT	0569061	EXP-HOME BLT	05690C6	EXP-HOME BLT	05690C6
EXP-HOME BLT	05676TD	EXP-HOME BLT	0569012	EXP-HOME BLT	056903C	EXP-HOME BLT	0569062	EXP-HOME BLT	05690C7	EXP-HOME BLT	05690C7
EXP-HOME BLT	05676TE	EXP-HOME BLT	0569014	EXP-HOME BLT	056903J	EXP-HOME BLT	0569063	EXP-HOME BLT	05690C8	EXP-HOME BLT	05690C8
EXP-HOME BLT	05676TF	EXP-HOME BLT	0569015	EXP-HOME BLT	056903N	EXP-HOME BLT	0569065	EXP-HOME BLT	05690C9	EXP-HOME BLT	05690C9
EXP-HOME BLT	05676TG	EXP-HOME BLT	0569016	EXP-HOME BLT	056903P	EXP-HOME BLT	0569067	EXP-HOME BLT	05690D1	EXP-HOME BLT	05690D1
EXP-HOME BLT	05676TJ	EXP-HOME BLT	0569017	EXP-HOME BLT	056903S	EXP-HOME BLT	0569070	EXP-HOME BLT	05690D2	EXP-HOME BLT	05690D2
EXP-HOME BLT	05676TK	EXP-HOME BLT	0569018	EXP-HOME BLT	056903U	EXP-HOME BLT	0569073	EXP-HOME BLT	05690D4	EXP-HOME BLT	05690D4
EXP-HOME BLT	05676TL	EXP-HOME BLT	056901E	EXP-HOME BLT	056903X	EXP-HOME BLT	0569077	EXP-HOME BLT	05690D9	EXP-HOME BLT	05690D9
EXP-HOME BLT	05676TP	EXP-HOME BLT	056901F	EXP-HOME BLT	056903Y	EXP-HOME BLT	056907A	EXP-HOME BLT	05690E1	EXP-HOME BLT	05690E1
EXP-HOME BLT	05676TV	EXP-HOME BLT	056901G	EXP-HOME BLT	0569041	EXP-HOME BLT	0569076	EXP-HOME BLT	05690E2	EXP-HOME BLT	05690E2
EXP-HOME BLT	05676TW	EXP-HOME BLT	056901M	EXP-HOME BLT	0569043	EXP-HOME BLT	0569078	EXP-HOME BLT	05690E4	EXP-HOME BLT	05690E4
EXP-HOME BLT	05676TX	EXP-HOME BLT	056901S	EXP-HOME BLT	0569044	EXP-HOME BLT	0569079	EXP-HOME BLT	05690E5	EXP-HOME BLT	05690E5
EXP-HOME BLT	05676TY	EXP-HOME BLT	056901T	EXP-HOME BLT	0569045	EXP-HOME BLT	0569082	EXP-HOME BLT	05690E9	EXP-HOME BLT	05690E9
EXP-HOME BLT	05676TZ	EXP-HOME BLT	056901U	EXP-HOME BLT	0569047	EXP-HOME BLT	0569084	EXP-HOME BLT	05690F3	EXP-HOME BLT	05690F3
EXP-HOME BLT	05676U1	EXP-HOME BLT	056901W	EXP-HOME BLT	0569048	EXP-HOME BLT	0569086	EXP-HOME BLT	05690F7	EXP-HOME BLT	05690F7
EXP-HOME BLT	05676U6	EXP-HOME BLT	056901X	EXP-HOME BLT	0569049	EXP-HOME BLT	0569088	EXP-HOME BLT	05690F9	EXP-HOME BLT	05690F9
EXP-HOME BLT	05676UA	EXP-HOME BLT	0569021	EXP-HOME BLT	056904A	EXP-HOME BLT	0569090	EXP-HOME BLT	05690G1	EXP-HOME BLT	05690G1
EXP-HOME BLT	05676UC	EXP-HOME BLT	0569023	EXP-HOME BLT	056904B	EXP-HOME BLT	0569091	EXP-HOME BLT	05690G3	EXP-HOME BLT	05690G3
EXP-HOME BLT	05676UE	EXP-HOME BLT	0569025	EXP-HOME BLT	056904C	EXP-HOME BLT	0569092	EXP-HOME BLT	05690G5	EXP-HOME BLT	05690G5
EXP-HOME BLT	05676UF	EXP-HOME BLT	0569026	EXP-HOME BLT	056904E	EXP-HOME BLT	0569094	EXP-HOME BLT	05690G6	EXP-HOME BLT	05690G6
EXP-HOME BLT	05676V1	EXP-HOME BLT	0569027	EXP-HOME BLT	056904F	EXP-HOME BLT	0569096	EXP-HOME BLT	05690G7	EXP-HOME BLT	05690G7
									05690G9	EXP-HOME BLT	05690G9
									05690H2	EXP-HOME BLT	05690H2

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-EXP-HOME BLT	05690H3	EXP-HOME BLT	05690T3	EXP-HOME BLT	0569112	EXP-HOME BLT	0569185
EXP-EXP-HOME BLT	05690H4	EXP-HOME BLT	05690T5	EXP-HOME BLT	0569115	EXP-HOME BLT	0569186
EXP-EXP-HOME BLT	05690H7	EXP-HOME BLT	05690T6	EXP-HOME BLT	0569117	EXP-HOME BLT	0569187
EXP-EXP-HOME BLT	05690J1	EXP-HOME BLT	05690T8	EXP-HOME BLT	0569119	EXP-HOME BLT	0569189
EXP-EXP-HOME BLT	05690J2	EXP-HOME BLT	05690T8	EXP-HOME BLT	0569123	EXP-HOME BLT	0569191
EXP-EXP-HOME BLT	05690J3	EXP-HOME BLT	05690U1	EXP-HOME BLT	0569125	EXP-HOME BLT	0569192
EXP-EXP-HOME BLT	05690J8	EXP-HOME BLT	05690U2	EXP-HOME BLT	0569126	EXP-HOME BLT	0569194
EXP-EXP-HOME BLT	05690J7	EXP-HOME BLT	05690U3	EXP-HOME BLT	0569127	EXP-HOME BLT	0569195
EXP-EXP-HOME BLT	05690J9	EXP-HOME BLT	05690U5	EXP-HOME BLT	0569128	EXP-HOME BLT	0569196
EXP-EXP-HOME BLT	05690K3	EXP-HOME BLT	05690U6	EXP-HOME BLT	0569130	EXP-HOME BLT	0569197
EXP-EXP-HOME BLT	05690K4	EXP-HOME BLT	05690V1	EXP-HOME BLT	0569132	EXP-HOME BLT	0569198
EXP-EXP-HOME BLT	05690K6	EXP-HOME BLT	05690V2	EXP-HOME BLT	0569134	EXP-HOME BLT	0569199
EXP-EXP-HOME BLT	05690K7	EXP-HOME BLT	05690V2	EXP-HOME BLT	0569137	EXP-HOME BLT	05691AB
EXP-EXP-HOME BLT	05690L2	EXP-HOME BLT	05690V3	EXP-HOME BLT	0569139	EXP-HOME BLT	05691AC
EXP-EXP-HOME BLT	05690L3	EXP-HOME BLT	05690V8	EXP-HOME BLT	0569140	EXP-HOME BLT	05691AD
EXP-EXP-HOME BLT	05690L5	EXP-HOME BLT	05690V9	EXP-HOME BLT	0569141	EXP-HOME BLT	05691AE
EXP-EXP-HOME BLT	05690L8	EXP-HOME BLT	05690W1	EXP-HOME BLT	0569143	EXP-HOME BLT	05691AF
EXP-EXP-HOME BLT	05690L9	EXP-HOME BLT	05690W4	EXP-HOME BLT	0569144	EXP-HOME BLT	05691AG
EXP-EXP-HOME BLT	05690M4	EXP-HOME BLT	05690W5	EXP-HOME BLT	0569145	EXP-HOME BLT	05691AJ
EXP-EXP-HOME BLT	05690N7	EXP-HOME BLT	05690W6	EXP-HOME BLT	0569147	EXP-HOME BLT	05691AK
EXP-EXP-HOME BLT	05690N1	EXP-HOME BLT	05690X1	EXP-HOME BLT	0569148	EXP-HOME BLT	05691AL
EXP-EXP-HOME BLT	05690N2	EXP-HOME BLT	05690X8	EXP-HOME BLT	0569150	EXP-HOME BLT	05691AQ
EXP-EXP-HOME BLT	05690N3	EXP-HOME BLT	05690X3	EXP-HOME BLT	0569153	EXP-HOME BLT	05691AR
EXP-EXP-HOME BLT	05690N5	EXP-HOME BLT	05690X4	EXP-HOME BLT	0569154	EXP-HOME BLT	05691AS
EXP-EXP-HOME BLT	05690N6	EXP-HOME BLT	05690X7	EXP-HOME BLT	0569155	EXP-HOME BLT	05691AT
EXP-EXP-HOME BLT	05690P2	EXP-HOME BLT	05690X8	EXP-HOME BLT	0569157	EXP-HOME BLT	05691AV
EXP-EXP-HOME BLT	05690P4	EXP-HOME BLT	05690X9	EXP-HOME BLT	0569158	EXP-HOME BLT	05691AX
EXP-EXP-HOME BLT	05690P8	EXP-HOME BLT	05690Y1	EXP-HOME BLT	0569159	EXP-HOME BLT	05691AY
EXP-EXP-HOME BLT	05690Q2	EXP-HOME BLT	05690Y4	EXP-HOME BLT	0569160	EXP-HOME BLT	05691AZ
EXP-EXP-HOME BLT	05690Q3	EXP-HOME BLT	05690Y7	EXP-HOME BLT	0569161	EXP-HOME BLT	05691BA
EXP-EXP-HOME BLT	05690Q4	EXP-HOME BLT	05690Y8	EXP-HOME BLT	0569163	EXP-HOME BLT	05691BC
EXP-EXP-HOME BLT	05690Q5	EXP-HOME BLT	05690Z1	EXP-HOME BLT	0569165	EXP-HOME BLT	05691BD
EXP-EXP-HOME BLT	05690Q6	EXP-HOME BLT	05690Z4	EXP-HOME BLT	0569166	EXP-HOME BLT	05691BG
EXP-EXP-HOME BLT	05690Q8	EXP-HOME BLT	05690Z5	EXP-HOME BLT	0569167	EXP-HOME BLT	05691BH
EXP-EXP-HOME BLT	05690R2	EXP-HOME BLT	05690Z5	EXP-HOME BLT	0569168	EXP-HOME BLT	05691BI
EXP-EXP-HOME BLT	05690R3	EXP-HOME BLT	05690Z7	EXP-HOME BLT	0569169	EXP-HOME BLT	05691BJ
EXP-EXP-HOME BLT	05690R4	EXP-HOME BLT	0569101	EXP-HOME BLT	0569170	EXP-HOME BLT	05691BK
EXP-EXP-HOME BLT	05690R9	EXP-HOME BLT	0569102	EXP-HOME BLT	0569174	EXP-HOME BLT	05691BN
EXP-EXP-HOME BLT	05690S1	EXP-HOME BLT	0569102	EXP-HOME BLT	0569177	EXP-HOME BLT	05691BQ
EXP-EXP-HOME BLT	05690S2	EXP-HOME BLT	0569108	EXP-HOME BLT	0569179	EXP-HOME BLT	05691BT
EXP-EXP-HOME BLT	05690S3	EXP-HOME BLT	0569109	EXP-HOME BLT	0569181	EXP-HOME BLT	05691BW
EXP-EXP-HOME BLT	05690S5	EXP-HOME BLT	0569110	EXP-HOME BLT	0569183	EXP-HOME BLT	05691BX
EXP-EXP-HOME BLT	05690S7	EXP-HOME BLT	0569112	EXP-HOME BLT	0569185	EXP-HOME BLT	05691BY
EXP-HOME BLT	056918Z	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CB	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CC	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CF	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CG	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CQ	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CR	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CU	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CV	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691CW	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
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EXP-HOME BLT	05691DD	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
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EXP-HOME BLT	05691DS	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
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EXP-HOME BLT	05691DY	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691DZ	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691EA	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691ED	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691EE	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
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EXP-HOME BLT	05691EJ	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691EL	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691EN	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691EW	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691EX	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691EZ	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691FB	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691FC	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691FD	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691FE	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691FF	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	
EXP-HOME BLT	05691FJ	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	

AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE
EXP-HOME	BLT	0760769	EXP-HOME	BLT	1130483	EXP-HOME	BLT	1130513	EXP-HOME	BLT	1130513	EXP-HOME	BLT	11307J7	
EXP-HOME	BLT	0760807	EXP-HOME	BLT	1130488	EXP-HOME	BLT	1130514	EXP-HOME	BLT	1130514	EXP-HOME	BLT	11307K4	
EXP-HOME	BLT	0760809	EXP-HOME	BLT	1130489	EXP-HOME	BLT	1130524	EXP-HOME	BLT	1130524	EXP-HOME	BLT	11307K9	
EXP-HOME	BLT	0760816	EXP-HOME	BLT	1130493	EXP-HOME	BLT	1130527	EXP-HOME	BLT	1130527	EXP-HOME	BLT	11307L4	
EXP-HOME	BLT	076089K	EXP-HOME	BLT	1130495	EXP-HOME	BLT	1130531	EXP-HOME	BLT	1130531	EXP-HOME	BLT	11307L5	
EXP-HOME	BLT	0761174	EXP-HOME	BLT	1130498	EXP-HOME	BLT	1130532	EXP-HOME	BLT	1130532	EXP-HOME	BLT	11307L7	
EXP-HOME	BLT	0780149	EXP-HOME	BLT	1130499	EXP-HOME	BLT	1130533	EXP-HOME	BLT	1130533	EXP-HOME	BLT	11307M1	
EXP-HOME	BLT	0780170	EXP-HOME	BLT	11304A1	EXP-HOME	BLT	1130545	EXP-HOME	BLT	1130545	EXP-HOME	BLT	11307M4	
EXP-HOME	BLT	0900108	EXP-HOME	BLT	11304A3	EXP-HOME	BLT	1130568	EXP-HOME	BLT	1130568	EXP-HOME	BLT	11307M8	
EXP-HOME	BLT	1130201	EXP-HOME	BLT	11304A4	EXP-HOME	BLT	1130574	EXP-HOME	BLT	1130574	EXP-HOME	BLT	11307N3	
EXP-HOME	BLT	1130203	EXP-HOME	BLT	11304A6	EXP-HOME	BLT	1130575	EXP-HOME	BLT	1130575	EXP-HOME	BLT	11307N4	
EXP-HOME	BLT	1130402	EXP-HOME	BLT	11304A9	EXP-HOME	BLT	1130591	EXP-HOME	BLT	1130591	EXP-HOME	BLT	11307N8	
EXP-HOME	BLT	1130415	EXP-HOME	BLT	11304B1	EXP-HOME	BLT	1130603	EXP-HOME	BLT	1130603	EXP-HOME	BLT	11307P1	
EXP-HOME	BLT	1130416	EXP-HOME	BLT	11304B2	EXP-HOME	BLT	1130608	EXP-HOME	BLT	1130608	EXP-HOME	BLT	11307P4	
EXP-HOME	BLT	1130419	EXP-HOME	BLT	11304B4	EXP-HOME	BLT	1130616	EXP-HOME	BLT	1130616	EXP-HOME	BLT	11307P5	
EXP-HOME	BLT	1130421	EXP-HOME	BLT	11304B5	EXP-HOME	BLT	1130620	EXP-HOME	BLT	1130620	EXP-HOME	BLT	11307P7	
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EXP-HOME	BLT	1130431	EXP-HOME	BLT	11304B7	EXP-HOME	BLT	1130627	EXP-HOME	BLT	1130627	EXP-HOME	BLT	11307Q1	
EXP-HOME	BLT	1130432	EXP-HOME	BLT	11304B9	EXP-HOME	BLT	1130738	EXP-HOME	BLT	1130738	EXP-HOME	BLT	11307Q2	
EXP-HOME	BLT	1130434	EXP-HOME	BLT	11304C1	EXP-HOME	BLT	1130769	EXP-HOME	BLT	1130769	EXP-HOME	BLT	11307Q4	
EXP-HOME	BLT	1130437	EXP-HOME	BLT	11304C2	EXP-HOME	BLT	1130771	EXP-HOME	BLT	1130771	EXP-HOME	BLT	1130805	
EXP-HOME	BLT	1130439	EXP-HOME	BLT	11304C3	EXP-HOME	BLT	1130783	EXP-HOME	BLT	1130783	EXP-HOME	BLT	1130813	
EXP-HOME	BLT	1130440	EXP-HOME	BLT	11304C8	EXP-HOME	BLT	1130785	EXP-HOME	BLT	1130785	EXP-HOME	BLT	1130815	
EXP-HOME	BLT	1130441	EXP-HOME	BLT	11304C9	EXP-HOME	BLT	1130789	EXP-HOME	BLT	1130789	EXP-HOME	BLT	1130816	
EXP-HOME	BLT	1130445	EXP-HOME	BLT	11304D1	EXP-HOME	BLT	11307C9	EXP-HOME	BLT	11307C9	EXP-HOME	BLT	1130817	
EXP-HOME	BLT	1130447	EXP-HOME	BLT	11304D4	EXP-HOME	BLT	11307D6	EXP-HOME	BLT	11307D6	EXP-HOME	BLT	1130818	
EXP-HOME	BLT	1130449	EXP-HOME	BLT	11304D8	EXP-HOME	BLT	11307E5	EXP-HOME	BLT	11307E5	EXP-HOME	BLT	1130820	
EXP-HOME	BLT	1130451	EXP-HOME	BLT	11304D9	EXP-HOME	BLT	11307E8	EXP-HOME	BLT	11307E8	EXP-HOME	BLT	1130827	
EXP-HOME	BLT	1130456	EXP-HOME	BLT	11304E1	EXP-HOME	BLT	11307F7	EXP-HOME	BLT	11307F7	EXP-HOME	BLT	1130831	
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EXP-HOME	BLT	1130476	EXP-HOME	BLT	11304H4	EXP-HOME	BLT	11307H8	EXP-HOME	BLT	11307H8	EXP-HOME	BLT	1130863	
EXP-HOME	BLT	1130478	EXP-HOME	BLT	11304H5	EXP-HOME	BLT	11307J2	EXP-HOME	BLT	11307J2	EXP-HOME	BLT	1130865	
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EXP-HOME	BLT	1130480	EXP-HOME	BLT	1130512	EXP-HOME	BLT	11307J4	EXP-HOME	BLT	11307J4	EXP-HOME	BLT	1130869	

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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EXP-HOME BLT	130011Z	EXP-HOME BLT	130016U	EXP-HOME BLT	130073P	EXP-HOME BLT	13007HM
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EXP-HOME BLT	130012C	EXP-HOME BLT	130016Z	EXP-HOME BLT	1300744	EXP-HOME BLT	13007JA
EXP-HOME BLT	130012F	EXP-HOME BLT	1300172	EXP-HOME BLT	1300746	EXP-HOME BLT	13007JC
EXP-HOME BLT	130012V	EXP-HOME BLT	1300175	EXP-HOME BLT	130074P	EXP-HOME BLT	13007JE
EXP-HOME BLT	130012X	EXP-HOME BLT	130017C	EXP-HOME BLT	130074R	EXP-HOME BLT	13007JF
EXP-HOME BLT	1300131	EXP-HOME BLT	130017D	EXP-HOME BLT	130075S	EXP-HOME BLT	13007JH
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EXP-HOME BLT	130013R	EXP-HOME BLT	130017K	EXP-HOME BLT	130076Q	EXP-HOME BLT	13007LP
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AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	1301070	EXP-HOME BLT	13015CV	EXP-HOME BLT	13017CE	EXP-HOME BLT	13017HL
EXP-HOME BLT	1301084	EXP-HOME BLT	13015DE	EXP-HOME BLT	13017CG	EXP-HOME BLT	13017HS
EXP-HOME BLT	1301092	EXP-HOME BLT	13015DF	EXP-HOME BLT	13017CK	EXP-HOME BLT	13017HT
EXP-HOME BLT	1301103	EXP-HOME BLT	13015DK	EXP-HOME BLT	13017CQ	EXP-HOME BLT	13017HU
EXP-HOME BLT	1301200	EXP-HOME BLT	13015DN	EXP-HOME BLT	13017DA	EXP-HOME BLT	13017HV
EXP-HOME BLT	1301202	EXP-HOME BLT	13015GB	EXP-HOME BLT	13017DC	EXP-HOME BLT	13017JA
EXP-HOME BLT	1301501	EXP-HOME BLT	13015GF	EXP-HOME BLT	13017DJ	EXP-HOME BLT	13017JC
EXP-HOME BLT	1301504	EXP-HOME BLT	13015GN	EXP-HOME BLT	13017DP	EXP-HOME BLT	13017JE
EXP-HOME BLT	1301505	EXP-HOME BLT	13015GT	EXP-HOME BLT	13017DQ	EXP-HOME BLT	13017JH
EXP-HOME BLT	1301514	EXP-HOME BLT	13015GU	EXP-HOME BLT	13017DS	EXP-HOME BLT	13017JJ
EXP-HOME BLT	1301528	EXP-HOME BLT	13015GV	EXP-HOME BLT	13017DT	EXP-HOME BLT	13017JM
EXP-HOME BLT	1301530	EXP-HOME BLT	13015GZ	EXP-HOME BLT	13017DU	EXP-HOME BLT	13017JN
EXP-HOME BLT	1301537	EXP-HOME BLT	13015HA	EXP-HOME BLT	13017DY	EXP-HOME BLT	13017JP
EXP-HOME BLT	1301543	EXP-HOME BLT	13015HE	EXP-HOME BLT	13017EE	EXP-HOME BLT	13017JR
EXP-HOME BLT	1301559	EXP-HOME BLT	13015HH	EXP-HOME BLT	13017EJ	EXP-HOME BLT	13017JT
EXP-HOME BLT	1301561	EXP-HOME BLT	13015HR	EXP-HOME BLT	13017EU	EXP-HOME BLT	13017JU
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EXP-HOME BLT	13015AF	EXP-HOME BLT	13015KA	EXP-HOME BLT	13017FY	EXP-HOME BLT	13017LB
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EXP-HOME BLT	13015BV	EXP-HOME BLT	13017AV	EXP-HOME BLT	13017GV	EXP-HOME BLT	13017LS
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EXP-HOME BLT	13015CE	EXP-HOME BLT	13017B	EXP-HOME BLT	13017HA	EXP-HOME BLT	13017LV
EXP-HOME BLT	13015CH	EXP-HOME BLT	13017BC	EXP-HOME BLT	13017HB	EXP-HOME BLT	13017LW
EXP-HOME BLT	13015CK	EXP-HOME BLT	13017BK	EXP-HOME BLT	13017HC	EXP-HOME BLT	13017LX
EXP-HOME BLT	13015CM	EXP-HOME BLT	13017BM	EXP-HOME BLT	13017HE	EXP-HOME BLT	13017LY
EXP-HOME BLT	13015CS	EXP-HOME BLT	13017BN	EXP-HOME BLT	13017HF	EXP-HOME BLT	13017LZ
EXP-HOME BLT	13015CT	EXP-HOME BLT	13017CC	EXP-HOME BLT	13017HK	EXP-HOME BLT	13017MB

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	1302030	EXP-HOME BLT	13021D5	EXP-HOME BLT	13021L4	EXP-HOME BLT	13021R7	EXP-HOME BLT	1302507	EXP-HOME BLT	1302507
EXP-HOME BLT	1302033	EXP-HOME BLT	13021D7	EXP-HOME BLT	13021LA	EXP-HOME BLT	13021RB	EXP-HOME BLT	1302510	EXP-HOME BLT	1302510
EXP-HOME BLT	1302041	EXP-HOME BLT	13021D9	EXP-HOME BLT	13021LE	EXP-HOME BLT	13021RD	EXP-HOME BLT	1302519	EXP-HOME BLT	1302519
EXP-HOME BLT	1302042	EXP-HOME BLT	13021DG	EXP-HOME BLT	13021LF	EXP-HOME BLT	13021RF	EXP-HOME BLT	1302529	EXP-HOME BLT	1302529
EXP-HOME BLT	1302043	EXP-HOME BLT	13021DH	EXP-HOME BLT	13021LG	EXP-HOME BLT	13021RG	EXP-HOME BLT	1302530	EXP-HOME BLT	1302530
EXP-HOME BLT	1302104	EXP-HOME BLT	13021DJ	EXP-HOME BLT	13021LJ	EXP-HOME BLT	13021RG	EXP-HOME BLT	1302537	EXP-HOME BLT	1302537
EXP-HOME BLT	1302105	EXP-HOME BLT	13021DP	EXP-HOME BLT	13021LN	EXP-HOME BLT	13021RM	EXP-HOME BLT	1302542	EXP-HOME BLT	1302542
EXP-HOME BLT	1302116	EXP-HOME BLT	13021DR	EXP-HOME BLT	13021LP	EXP-HOME BLT	13021RQ	EXP-HOME BLT	1302545	EXP-HOME BLT	1302545
EXP-HOME BLT	1302130	EXP-HOME BLT	13021DV	EXP-HOME BLT	13021LU	EXP-HOME BLT	13021RR	EXP-HOME BLT	1302560	EXP-HOME BLT	1302560
EXP-HOME BLT	1302134	EXP-HOME BLT	13021DY	EXP-HOME BLT	13021LX	EXP-HOME BLT	13021RY	EXP-HOME BLT	1302561	EXP-HOME BLT	1302561
EXP-HOME BLT	1302142	EXP-HOME BLT	13021E3	EXP-HOME BLT	13021ME	EXP-HOME BLT	13021S1	EXP-HOME BLT	1302564	EXP-HOME BLT	1302564
EXP-HOME BLT	1302146	EXP-HOME BLT	13021E8	EXP-HOME BLT	13021MG	EXP-HOME BLT	13021S2	EXP-HOME BLT	1302566	EXP-HOME BLT	1302566
EXP-HOME BLT	1302150	EXP-HOME BLT	13021EA	EXP-HOME BLT	13021MH	EXP-HOME BLT	13021S8	EXP-HOME BLT	1302567	EXP-HOME BLT	1302567
EXP-HOME BLT	1302161	EXP-HOME BLT	13021EF	EXP-HOME BLT	13021MS	EXP-HOME BLT	13021SA	EXP-HOME BLT	1302570	EXP-HOME BLT	1302570
EXP-HOME BLT	1302163	EXP-HOME BLT	13021EH	EXP-HOME BLT	13021MT	EXP-HOME BLT	13021SB	EXP-HOME BLT	13025A1	EXP-HOME BLT	13025A1
EXP-HOME BLT	1302167	EXP-HOME BLT	13021EX	EXP-HOME BLT	13021MX	EXP-HOME BLT	13021SE	EXP-HOME BLT	13025A5	EXP-HOME BLT	13025A5
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EXP-HOME BLT	1302173	EXP-HOME BLT	13021G6	EXP-HOME BLT	13021NF	EXP-HOME BLT	13021T3	EXP-HOME BLT	13025AK	EXP-HOME BLT	13025AK
EXP-HOME BLT	1302174	EXP-HOME BLT	13021G4	EXP-HOME BLT	13021NG	EXP-HOME BLT	13021T7	EXP-HOME BLT	13025AN	EXP-HOME BLT	13025AN
EXP-HOME BLT	1302186	EXP-HOME BLT	13021G6	EXP-HOME BLT	13021NG	EXP-HOME BLT	13021U4	EXP-HOME BLT	13025AU	EXP-HOME BLT	13025AU
EXP-HOME BLT	1302190	EXP-HOME BLT	13021GS	EXP-HOME BLT	13021NM	EXP-HOME BLT	13021U5	EXP-HOME BLT	13025B8	EXP-HOME BLT	13025B8
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EXP-HOME BLT	13021CK	EXP-HOME BLT	13021KK	EXP-HOME BLT	13021QU	EXP-HOME BLT	1302404	EXP-HOME BLT	13025E5	EXP-HOME BLT	13025E5
EXP-HOME BLT	13021CL	EXP-HOME BLT	13021KY	EXP-HOME BLT	13021QV	EXP-HOME BLT	1302412	EXP-HOME BLT	13025E9	EXP-HOME BLT	13025E9
EXP-HOME BLT	13021CL	EXP-HOME BLT	13021KY	EXP-HOME BLT	13021QZ	EXP-HOME BLT	1302506	EXP-HOME BLT	13025EF	EXP-HOME BLT	13025EF

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	13025EP	EXP-HOME BLT	13025U6	EXP-HOME BLT	13027C2	EXP-HOME BLT	13027H8	EXP-HOME BLT	1410153
EXP-HOME BLT	13025F6	EXP-HOME BLT	13025U8	EXP-HOME BLT	13027C5	EXP-HOME BLT	1302805	EXP-HOME BLT	1410154
EXP-HOME BLT	13025FM	EXP-HOME BLT	13025X1	EXP-HOME BLT	13027E4	EXP-HOME BLT	1302914	EXP-HOME BLT	1410155
EXP-HOME BLT	13025FS	EXP-HOME BLT	13025X3	EXP-HOME BLT	13027E8	EXP-HOME BLT	1304410	EXP-HOME BLT	1410162
EXP-HOME BLT	13025FV	EXP-HOME BLT	13025X8	EXP-HOME BLT	13027E9	EXP-HOME BLT	1304413	EXP-HOME BLT	1410163
EXP-HOME BLT	13025G3	EXP-HOME BLT	13025Y1	EXP-HOME BLT	13027FA	EXP-HOME BLT	1410101	EXP-HOME BLT	1410164
EXP-HOME BLT	13025G4	EXP-HOME BLT	13025Y6	EXP-HOME BLT	13027FC	EXP-HOME BLT	1410102	EXP-HOME BLT	1410165
EXP-HOME BLT	13025G6	EXP-HOME BLT	13025Z2	EXP-HOME BLT	13027FR	EXP-HOME BLT	1410103	EXP-HOME BLT	1410167
EXP-HOME BLT	13025G6	EXP-HOME BLT	13025Z7	EXP-HOME BLT	13027FT	EXP-HOME BLT	1410104	EXP-HOME BLT	1410167
EXP-HOME BLT	13025G6	EXP-HOME BLT	13025Z8	EXP-HOME BLT	13027FU	EXP-HOME BLT	1410106	EXP-HOME BLT	1410170
EXP-HOME BLT	13025G6	EXP-HOME BLT	1302604	EXP-HOME BLT	13027FZ	EXP-HOME BLT	1410107	EXP-HOME BLT	1410172
EXP-HOME BLT	13025G6	EXP-HOME BLT	1302605	EXP-HOME BLT	13027GJ	EXP-HOME BLT	1410108	EXP-HOME BLT	1410174
EXP-HOME BLT	13025G6	EXP-HOME BLT	1302609	EXP-HOME BLT	13027GK	EXP-HOME BLT	1410111	EXP-HOME BLT	1410175
EXP-HOME BLT	13025G6	EXP-HOME BLT	1302610	EXP-HOME BLT	13027GS	EXP-HOME BLT	1410112	EXP-HOME BLT	1410178
EXP-HOME BLT	13025G6	EXP-HOME BLT	1302611	EXP-HOME BLT	13027GT	EXP-HOME BLT	1410114	EXP-HOME BLT	1410180
EXP-HOME BLT	13025H5	EXP-HOME BLT	1302613	EXP-HOME BLT	13027GU	EXP-HOME BLT	1410115	EXP-HOME BLT	1410183
EXP-HOME BLT	13025J1	EXP-HOME BLT	1302614	EXP-HOME BLT	13027GX	EXP-HOME BLT	1410116	EXP-HOME BLT	1410184
EXP-HOME BLT	13025J3	EXP-HOME BLT	1302615	EXP-HOME BLT	13027GY	EXP-HOME BLT	1410117	EXP-HOME BLT	1410186
EXP-HOME BLT	13025J8	EXP-HOME BLT	1302619	EXP-HOME BLT	13027HA	EXP-HOME BLT	1410119	EXP-HOME BLT	1410188
EXP-HOME BLT	13025K5	EXP-HOME BLT	1302630	EXP-HOME BLT	13027HB	EXP-HOME BLT	1410120	EXP-HOME BLT	1410191
EXP-HOME BLT	13025L3	EXP-HOME BLT	1302636	EXP-HOME BLT	13027HD	EXP-HOME BLT	1410121	EXP-HOME BLT	1410192
EXP-HOME BLT	13025L8	EXP-HOME BLT	1302713	EXP-HOME BLT	13027HG	EXP-HOME BLT	1410122	EXP-HOME BLT	1410195
EXP-HOME BLT	13025M3	EXP-HOME BLT	1302716	EXP-HOME BLT	13027HJ	EXP-HOME BLT	1410123	EXP-HOME BLT	14101A1
EXP-HOME BLT	13025N6	EXP-HOME BLT	1302724	EXP-HOME BLT	13027HL	EXP-HOME BLT	1410124	EXP-HOME BLT	14101A4
EXP-HOME BLT	13025N9	EXP-HOME BLT	1302736	EXP-HOME BLT	13027HN	EXP-HOME BLT	1410125	EXP-HOME BLT	14101A5
EXP-HOME BLT	13025P1	EXP-HOME BLT	1302739	EXP-HOME BLT	13027HN	EXP-HOME BLT	1410128	EXP-HOME BLT	14101B3
EXP-HOME BLT	13025P5	EXP-HOME BLT	1302745	EXP-HOME BLT	13027HR	EXP-HOME BLT	1410129	EXP-HOME BLT	14101B5
EXP-HOME BLT	13025P7	EXP-HOME BLT	1302752	EXP-HOME BLT	13027HS	EXP-HOME BLT	1410130	EXP-HOME BLT	14101B8
EXP-HOME BLT	13025P9	EXP-HOME BLT	1302754	EXP-HOME BLT	13027HY	EXP-HOME BLT	1410131	EXP-HOME BLT	14101C2
EXP-HOME BLT	13025Q3	EXP-HOME BLT	1302757	EXP-HOME BLT	13027JD	EXP-HOME BLT	1410133	EXP-HOME BLT	14101C3
EXP-HOME BLT	13025R2	EXP-HOME BLT	1302767	EXP-HOME BLT	13027JS	EXP-HOME BLT	1410134	EXP-HOME BLT	14101C5
EXP-HOME BLT	13025R8	EXP-HOME BLT	1302768	EXP-HOME BLT	13027JX	EXP-HOME BLT	1410136	EXP-HOME BLT	14101C6
EXP-HOME BLT	13025T8	EXP-HOME BLT	1302770	EXP-HOME BLT	13027KD	EXP-HOME BLT	1410137	EXP-HOME BLT	14101C8
EXP-HOME BLT	13025U3	EXP-HOME BLT	1302779	EXP-HOME BLT	13027KG	EXP-HOME BLT	1410138	EXP-HOME BLT	14101D1
EXP-HOME BLT	13025U6	EXP-HOME BLT	1302781	EXP-HOME BLT	13027KH	EXP-HOME BLT	1410139	EXP-HOME BLT	14101D2
EXP-HOME BLT	13025U7	EXP-HOME BLT	1302782	EXP-HOME BLT	13027KL	EXP-HOME BLT	1410140	EXP-HOME BLT	14101D8
EXP-HOME BLT	13025U9	EXP-HOME BLT	1302783	EXP-HOME BLT	13027KN	EXP-HOME BLT	1410141	EXP-HOME BLT	14101D9
EXP-HOME BLT	13025V3	EXP-HOME BLT	1302787	EXP-HOME BLT	13027KU	EXP-HOME BLT	1410144	EXP-HOME BLT	14101E2
EXP-HOME BLT	13025V4	EXP-HOME BLT	1302790	EXP-HOME BLT	13027KV	EXP-HOME BLT	1410146	EXP-HOME BLT	14101E3
EXP-HOME BLT	13025V5	EXP-HOME BLT	13027A5	EXP-HOME BLT	13027KZ	EXP-HOME BLT	1410147	EXP-HOME BLT	14101E6
EXP-HOME BLT	13025V5	EXP-HOME BLT	13027A8	EXP-HOME BLT	13027LC	EXP-HOME BLT	1410148	EXP-HOME BLT	14101E8
EXP-HOME BLT	13025V5	EXP-HOME BLT	13027B3	EXP-HOME BLT	13027LU	EXP-HOME BLT	1410149	EXP-HOME BLT	14101E9
EXP-HOME BLT	13025V5	EXP-HOME BLT	13027B4	EXP-HOME BLT	13027LX	EXP-HOME BLT	1410150	EXP-HOME BLT	14101F2

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	14101F4	EXP-HOME BLT	14121LQ	EXP-HOME BLT	1590601	EXP-HOME BLT	1690363	EXP-HOME BLT	1690443	EXP-HOME BLT	1690443
EXP-HOME BLT	14101F5	EXP-HOME BLT	14121LR	EXP-HOME BLT	1590604	EXP-HOME BLT	1690364	EXP-HOME BLT	1690449	EXP-HOME BLT	1690449
EXP-HOME BLT	14101F6	EXP-HOME BLT	14121LT	EXP-HOME BLT	1590605	EXP-HOME BLT	1690369	EXP-HOME BLT	1690450	EXP-HOME BLT	1690450
EXP-HOME BLT	14101F8	EXP-HOME BLT	14121MA	EXP-HOME BLT	16901BA	EXP-HOME BLT	1690356	EXP-HOME BLT	1690451	EXP-HOME BLT	1690451
EXP-HOME BLT	14101F9	EXP-HOME BLT	14121MB	EXP-HOME BLT	16901BC	EXP-HOME BLT	1690360	EXP-HOME BLT	1690452	EXP-HOME BLT	1690452
EXP-HOME BLT	14101G1	EXP-HOME BLT	14121MJ	EXP-HOME BLT	16901CC	EXP-HOME BLT	1690361	EXP-HOME BLT	1690457	EXP-HOME BLT	1690457
EXP-HOME BLT	14101G3	EXP-HOME BLT	14121MK	EXP-HOME BLT	16901CE	EXP-HOME BLT	1690362	EXP-HOME BLT	1690459	EXP-HOME BLT	1690459
EXP-HOME BLT	14101G4	EXP-HOME BLT	14121MM	EXP-HOME BLT	16901CH	EXP-HOME BLT	1690363	EXP-HOME BLT	1690461	EXP-HOME BLT	1690461
EXP-HOME BLT	14101G7	EXP-HOME BLT	14121MQ	EXP-HOME BLT	16901CJ	EXP-HOME BLT	1690364	EXP-HOME BLT	1690462	EXP-HOME BLT	1690462
EXP-HOME BLT	14101H1	EXP-HOME BLT	14121MR	EXP-HOME BLT	16901CK	EXP-HOME BLT	1690365	EXP-HOME BLT	1690463	EXP-HOME BLT	1690463
EXP-HOME BLT	14101H2	EXP-HOME BLT	14121MS	EXP-HOME BLT	16901CP	EXP-HOME BLT	1690370	EXP-HOME BLT	1690466	EXP-HOME BLT	1690466
EXP-HOME BLT	1410202	EXP-HOME BLT	14121QF	EXP-HOME BLT	16901CQ	EXP-HOME BLT	1690371	EXP-HOME BLT	1690470	EXP-HOME BLT	1690470
EXP-HOME BLT	1412101	EXP-HOME BLT	14121TP	EXP-HOME BLT	16901CR	EXP-HOME BLT	1690373	EXP-HOME BLT	1690473	EXP-HOME BLT	1690473
EXP-HOME BLT	141210C	EXP-HOME BLT	14121U8	EXP-HOME BLT	16901DH	EXP-HOME BLT	1690374	EXP-HOME BLT	1690477	EXP-HOME BLT	1690477
EXP-HOME BLT	141210E	EXP-HOME BLT	14121UF	EXP-HOME BLT	16901HA	EXP-HOME BLT	1690375	EXP-HOME BLT	1690479	EXP-HOME BLT	1690479
EXP-HOME BLT	141210G	EXP-HOME BLT	14121UG	EXP-HOME BLT	16901KB	EXP-HOME BLT	1690376	EXP-HOME BLT	1690482	EXP-HOME BLT	1690482
EXP-HOME BLT	141210J	EXP-HOME BLT	14121UH	EXP-HOME BLT	16901QR	EXP-HOME BLT	1690377	EXP-HOME BLT	1690483	EXP-HOME BLT	1690483
EXP-HOME BLT	141210P	EXP-HOME BLT	14121UK	EXP-HOME BLT	16901QS	EXP-HOME BLT	1690378	EXP-HOME BLT	1690485	EXP-HOME BLT	1690485
EXP-HOME BLT	1412116	EXP-HOME BLT	14121UL	EXP-HOME BLT	16901QT	EXP-HOME BLT	1690379	EXP-HOME BLT	1690501	EXP-HOME BLT	1690501
EXP-HOME BLT	1412123	EXP-HOME BLT	14121UM	EXP-HOME BLT	16901RA	EXP-HOME BLT	1690380	EXP-HOME BLT	1690504	EXP-HOME BLT	1690504
EXP-HOME BLT	1412124	EXP-HOME BLT	14121UN	EXP-HOME BLT	16901RF	EXP-HOME BLT	1690382	EXP-HOME BLT	1690506	EXP-HOME BLT	1690506
EXP-HOME BLT	1412128	EXP-HOME BLT	14121X7	EXP-HOME BLT	16901T6	EXP-HOME BLT	1690385	EXP-HOME BLT	1690508	EXP-HOME BLT	1690508
EXP-HOME BLT	1412130	EXP-HOME BLT	14121ZA	EXP-HOME BLT	16901T7	EXP-HOME BLT	1690388	EXP-HOME BLT	1690509	EXP-HOME BLT	1690509
EXP-HOME BLT	1412131	EXP-HOME BLT	1590115	EXP-HOME BLT	16901T9	EXP-HOME BLT	1690391	EXP-HOME BLT	1690512	EXP-HOME BLT	1690512
EXP-HOME BLT	1412132	EXP-HOME BLT	1590134	EXP-HOME BLT	16901TA	EXP-HOME BLT	1690393	EXP-HOME BLT	1690513	EXP-HOME BLT	1690513
EXP-HOME BLT	1412139	EXP-HOME BLT	1590202	EXP-HOME BLT	16901U0	EXP-HOME BLT	1690395	EXP-HOME BLT	1690517	EXP-HOME BLT	1690517
EXP-HOME BLT	1412189	EXP-HOME BLT	1590205	EXP-HOME BLT	16901V3	EXP-HOME BLT	1690401	EXP-HOME BLT	1690518	EXP-HOME BLT	1690518
EXP-HOME BLT	14121J5	EXP-HOME BLT	1590313	EXP-HOME BLT	16901VB	EXP-HOME BLT	1690410	EXP-HOME BLT	1690521	EXP-HOME BLT	1690521
EXP-HOME BLT	14121J6	EXP-HOME BLT	1590350	EXP-HOME BLT	16901VK	EXP-HOME BLT	1690411	EXP-HOME BLT	1690601	EXP-HOME BLT	1690601
EXP-HOME BLT	14121KF	EXP-HOME BLT	1590352	EXP-HOME BLT	16901VL	EXP-HOME BLT	1690413	EXP-HOME BLT	1690605	EXP-HOME BLT	1690605
EXP-HOME BLT	14121LB	EXP-HOME BLT	1590358	EXP-HOME BLT	1690302	EXP-HOME BLT	1690420	EXP-HOME BLT	1690606	EXP-HOME BLT	1690606
EXP-HOME BLT	14121LC	EXP-HOME BLT	1590362	EXP-HOME BLT	1690304	EXP-HOME BLT	1690422	EXP-HOME BLT	1690608	EXP-HOME BLT	1690608
EXP-HOME BLT	14121LD	EXP-HOME BLT	1590413	EXP-HOME BLT	1690305	EXP-HOME BLT	1690424	EXP-HOME BLT	1690609	EXP-HOME BLT	1690609
EXP-HOME BLT	14121LE	EXP-HOME BLT	1590416	EXP-HOME BLT	1690308	EXP-HOME BLT	1690426	EXP-HOME BLT	1690611	EXP-HOME BLT	1690611
EXP-HOME BLT	14121LF	EXP-HOME BLT	1590503	EXP-HOME BLT	1690314	EXP-HOME BLT	1690427	EXP-HOME BLT	1690612	EXP-HOME BLT	1690612
EXP-HOME BLT	14121LG	EXP-HOME BLT	1590506	EXP-HOME BLT	1690315	EXP-HOME BLT	1690430	EXP-HOME BLT	1690613	EXP-HOME BLT	1690613
EXP-HOME BLT	14121LH	EXP-HOME BLT	1590507	EXP-HOME BLT	1690320	EXP-HOME BLT	1690431	EXP-HOME BLT	1690614	EXP-HOME BLT	1690614
EXP-HOME BLT	14121LI	EXP-HOME BLT	1590509	EXP-HOME BLT	1690324	EXP-HOME BLT	1690432	EXP-HOME BLT	1690615	EXP-HOME BLT	1690615
EXP-HOME BLT	14121LM	EXP-HOME BLT	1590513	EXP-HOME BLT	1690325	EXP-HOME BLT	1690433	EXP-HOME BLT	1690616	EXP-HOME BLT	1690616
EXP-HOME BLT	14121LN	EXP-HOME BLT	1590515	EXP-HOME BLT	1690326	EXP-HOME BLT	1690436	EXP-HOME BLT	1690619	EXP-HOME BLT	1690619
EXP-HOME BLT	14121LP	EXP-HOME BLT	1590516	EXP-HOME BLT	1690328	EXP-HOME BLT	1690437	EXP-HOME BLT	1690621	EXP-HOME BLT	1690621
EXP-HOME BLT		EXP-HOME BLT	1590517	EXP-HOME BLT	1690332	EXP-HOME BLT	1690440	EXP-HOME BLT	1690622	EXP-HOME BLT	1690622
EXP-HOME BLT		EXP-HOME BLT	1590518	EXP-HOME BLT	1690338	EXP-HOME BLT	1690442	EXP-HOME BLT	1690626	EXP-HOME BLT	1690626

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	1690629	EXP-HOME BLT	1690643	EXP-HOME BLT	1970311	EXP-HOME BLT	197041A	EXP-HOME BLT	33601G2
EXP-HOME BLT	1690632	EXP-HOME BLT	1690645	EXP-HOME BLT	1970312	EXP-HOME BLT	197041Z	EXP-HOME BLT	33601GE
EXP-HOME BLT	1690637	EXP-HOME BLT	1690681	EXP-HOME BLT	1970314	EXP-HOME BLT	197041A	EXP-HOME BLT	33601GR
EXP-HOME BLT	1690638	EXP-HOME BLT	1690683	EXP-HOME BLT	1970315	EXP-HOME BLT	197041H	EXP-HOME BLT	33601HO
EXP-HOME BLT	1690639	EXP-HOME BLT	1690684	EXP-HOME BLT	1970316	EXP-HOME BLT	197041H	EXP-HOME BLT	33601H1
EXP-HOME BLT	1690640	EXP-HOME BLT	1692165	EXP-HOME BLT	1970318	EXP-HOME BLT	1970504	EXP-HOME BLT	33601H3
EXP-HOME BLT	1690642	EXP-HOME BLT	1692167	EXP-HOME BLT	1970319	EXP-HOME BLT	1970506	EXP-HOME BLT	33601H8
EXP-HOME BLT	1690644	EXP-HOME BLT	1692168	EXP-HOME BLT	1970320	EXP-HOME BLT	1970507	EXP-HOME BLT	33601H9
EXP-HOME BLT	1690645	EXP-HOME BLT	1692170	EXP-HOME BLT	1970321	EXP-HOME BLT	1970510	EXP-HOME BLT	33601HB
EXP-HOME BLT	1690647	EXP-HOME BLT	169218K	EXP-HOME BLT	1970322	EXP-HOME BLT	1970511	EXP-HOME BLT	33601HW
EXP-HOME BLT	1690649	EXP-HOME BLT	1970101	EXP-HOME BLT	1970326	EXP-HOME BLT	1970515	EXP-HOME BLT	33601HX
EXP-HOME BLT	1690650	EXP-HOME BLT	1970103	EXP-HOME BLT	1970327	EXP-HOME BLT	1970820	EXP-HOME BLT	33601HY
EXP-HOME BLT	1690653	EXP-HOME BLT	1970104	EXP-HOME BLT	1970331	EXP-HOME BLT	1970822	EXP-HOME BLT	33601HZ
EXP-HOME BLT	1690654	EXP-HOME BLT	1970110	EXP-HOME BLT	1970336	EXP-HOME BLT	1970823	EXP-HOME BLT	33601J3
EXP-HOME BLT	1690658	EXP-HOME BLT	1970111	EXP-HOME BLT	1970339	EXP-HOME BLT	1970828	EXP-HOME BLT	33601J4
EXP-HOME BLT	1690660	EXP-HOME BLT	1970113	EXP-HOME BLT	1970340	EXP-HOME BLT	1970829	EXP-HOME BLT	33601J5
EXP-HOME BLT	1690661	EXP-HOME BLT	1970114	EXP-HOME BLT	1970344	EXP-HOME BLT	1970831	EXP-HOME BLT	33601J7
EXP-HOME BLT	1690662	EXP-HOME BLT	1970117	EXP-HOME BLT	1970349	EXP-HOME BLT	1970833	EXP-HOME BLT	33601JD
EXP-HOME BLT	1690663	EXP-HOME BLT	1970119	EXP-HOME BLT	1970350	EXP-HOME BLT	1970832	EXP-HOME BLT	33601JG
EXP-HOME BLT	1690664	EXP-HOME BLT	1970124	EXP-HOME BLT	1970352	EXP-HOME BLT	1970833	EXP-HOME BLT	33601JJ
EXP-HOME BLT	1690665	EXP-HOME BLT	1970126	EXP-HOME BLT	1970354	EXP-HOME BLT	1970834	EXP-HOME BLT	33601JK
EXP-HOME BLT	1690666	EXP-HOME BLT	1970127	EXP-HOME BLT	1970356	EXP-HOME BLT	1970837	EXP-HOME BLT	33601JM
EXP-HOME BLT	1690667	EXP-HOME BLT	1970128	EXP-HOME BLT	1970361	EXP-HOME BLT	2800902	EXP-HOME BLT	33601JX
EXP-HOME BLT	1690668	EXP-HOME BLT	1970131	EXP-HOME BLT	1970362	EXP-HOME BLT	2850302	EXP-HOME BLT	33601K9
EXP-HOME BLT	1690671	EXP-HOME BLT	1970135	EXP-HOME BLT	1970363	EXP-HOME BLT	3180202	EXP-HOME BLT	33601KA
EXP-HOME BLT	1690672	EXP-HOME BLT	1970136	EXP-HOME BLT	1970364	EXP-HOME BLT	33601A1	EXP-HOME BLT	33601KJ
EXP-HOME BLT	1690674	EXP-HOME BLT	1970137	EXP-HOME BLT	1970366	EXP-HOME BLT	33601A8	EXP-HOME BLT	33601KP
EXP-HOME BLT	1690677	EXP-HOME BLT	1970139	EXP-HOME BLT	1970366	EXP-HOME BLT	33601AA	EXP-HOME BLT	33601LL
EXP-HOME BLT	1690678	EXP-HOME BLT	1970140	EXP-HOME BLT	1970367	EXP-HOME BLT	33601AH	EXP-HOME BLT	33601LN
EXP-HOME BLT	1690679	EXP-HOME BLT	1970141	EXP-HOME BLT	1970371	EXP-HOME BLT	33601AN	EXP-HOME BLT	33601MA
EXP-HOME BLT	1690680	EXP-HOME BLT	1970143	EXP-HOME BLT	1970372	EXP-HOME BLT	33601AR	EXP-HOME BLT	33601MG
EXP-HOME BLT	1690681	EXP-HOME BLT	1970146	EXP-HOME BLT	1970374	EXP-HOME BLT	33601AT	EXP-HOME BLT	33601MH
EXP-HOME BLT	1690682	EXP-HOME BLT	1970147	EXP-HOME BLT	1970378	EXP-HOME BLT	33601AY	EXP-HOME BLT	33601MJ
EXP-HOME BLT	1690683	EXP-HOME BLT	1970148	EXP-HOME BLT	1970381	EXP-HOME BLT	33601B3	EXP-HOME BLT	33601NA
EXP-HOME BLT	1690688	EXP-HOME BLT	1970153	EXP-HOME BLT	1970422	EXP-HOME BLT	33601B4	EXP-HOME BLT	33601NB
EXP-HOME BLT	1690691	EXP-HOME BLT	1970201	EXP-HOME BLT	197048B	EXP-HOME BLT	33601B5	EXP-HOME BLT	33601PB
EXP-HOME BLT	1690694	EXP-HOME BLT	1970211	EXP-HOME BLT	197048D	EXP-HOME BLT	33601C4	EXP-HOME BLT	33601QM
EXP-HOME BLT	1690695	EXP-HOME BLT	1970213	EXP-HOME BLT	197048F	EXP-HOME BLT	33601C5	EXP-HOME BLT	33601QN
EXP-HOME BLT	1690696	EXP-HOME BLT	1970215	EXP-HOME BLT	197048H	EXP-HOME BLT	33601C6	EXP-HOME BLT	33601RA
EXP-HOME BLT	1690697	EXP-HOME BLT	1970303	EXP-HOME BLT	197048M	EXP-HOME BLT	33601C8	EXP-HOME BLT	33601RB
EXP-HOME BLT	1690698	EXP-HOME BLT	1970304	EXP-HOME BLT	19704G7	EXP-HOME BLT	33601DT	EXP-HOME BLT	33601RC
EXP-HOME BLT	1690699	EXP-HOME BLT	1970308	EXP-HOME BLT	19704G8	EXP-HOME BLT	33601EZ	EXP-HOME BLT	33601SJ
EXP-HOME BLT	16906A2	EXP-HOME BLT	1970309	EXP-HOME BLT	19704JC	EXP-HOME BLT	33601FK	EXP-HOME BLT	33601U1

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	33601U3	EXP-HOME BLT	3360348	EXP-HOME BLT	3910225	EXP-HOME BLT	39120RK	EXP-HOME BLT	39120RK	EXP-HOME BLT	4700214
EXP-HOME BLT	33601UA	EXP-HOME BLT	3360349	EXP-HOME BLT	3910230	EXP-HOME BLT	39120SE	EXP-HOME BLT	39120SE	EXP-HOME BLT	4700240
EXP-HOME BLT	33601UW	EXP-HOME BLT	3360353	EXP-HOME BLT	3910231	EXP-HOME BLT	39120TB	EXP-HOME BLT	39120TB	EXP-HOME BLT	4700246
EXP-HOME BLT	33601U2	EXP-HOME BLT	3360354	EXP-HOME BLT	3910232	EXP-HOME BLT	39120TC	EXP-HOME BLT	39120TC	EXP-HOME BLT	4700246
EXP-HOME BLT	33602TB	EXP-HOME BLT	3360357	EXP-HOME BLT	3910233	EXP-HOME BLT	39122AB	EXP-HOME BLT	39122AB	EXP-HOME BLT	4700253
EXP-HOME BLT	33602TC	EXP-HOME BLT	3360360	EXP-HOME BLT	3910234	EXP-HOME BLT	39122BA	EXP-HOME BLT	39122BA	EXP-HOME BLT	4700256
EXP-HOME BLT	33602TD	EXP-HOME BLT	3360361	EXP-HOME BLT	3910235	EXP-HOME BLT	39122BB	EXP-HOME BLT	39122BB	EXP-HOME BLT	470026J
EXP-HOME BLT	33602TF	EXP-HOME BLT	3360362	EXP-HOME BLT	3910236	EXP-HOME BLT	39122BC	EXP-HOME BLT	39122BC	EXP-HOME BLT	470027H
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EXP-HOME BLT	33602TP	EXP-HOME BLT	3360328	EXP-HOME BLT	3910244	EXP-HOME BLT	4060137	EXP-HOME BLT	4060137	EXP-HOME BLT	4700341
EXP-HOME BLT	33602TQ	EXP-HOME BLT	3360332	EXP-HOME BLT	3910245	EXP-HOME BLT	406014T	EXP-HOME BLT	406014T	EXP-HOME BLT	4700342
EXP-HOME BLT	33602TR	EXP-HOME BLT	3360333	EXP-HOME BLT	3910246	EXP-HOME BLT	406014Y	EXP-HOME BLT	406014Y	EXP-HOME BLT	470035A
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EXP-HOME BLT	33602TZ	EXP-HOME BLT	3360597	EXP-HOME BLT	3910255	EXP-HOME BLT	4060193	EXP-HOME BLT	4060193	EXP-HOME BLT	47008C2
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EXP-HOME BLT	3360342	EXP-HOME BLT	3910218	EXP-HOME BLT	39120PG	EXP-HOME BLT	47000B7	EXP-HOME BLT	47000B7	EXP-HOME BLT	57901SJ
EXP-HOME BLT	3360347	EXP-HOME BLT	3910222	EXP-HOME BLT	39120QA	EXP-HOME BLT	4700209	EXP-HOME BLT	4700209	EXP-HOME BLT	57901SK

APPENDIX B

AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	57901SP	EXP-HOME BLT	6250204	EXP-HOME BLT	7020245	EXP-HOME BLT	70401N2	EXP-HOME BLT	7040269	EXP-HOME BLT	7040269
EXP-HOME BLT	5870105	EXP-HOME BLT	6250207	EXP-HOME BLT	7020246	EXP-HOME BLT	70401Q7	EXP-HOME BLT	7040271	EXP-HOME BLT	7040271
EXP-HOME BLT	6250102	EXP-HOME BLT	6250205	EXP-HOME BLT	7020249	EXP-HOME BLT	70401QL	EXP-HOME BLT	7040272	EXP-HOME BLT	7040272
EXP-HOME BLT	625010J	EXP-HOME BLT	6250208	EXP-HOME BLT	7021801	EXP-HOME BLT	70401QU	EXP-HOME BLT	7040273	EXP-HOME BLT	7040273
EXP-HOME BLT	625011L	EXP-HOME BLT	6250210	EXP-HOME BLT	70218DK	EXP-HOME BLT	70401RA	EXP-HOME BLT	7040274	EXP-HOME BLT	7040274
EXP-HOME BLT	625011V	EXP-HOME BLT	6250213	EXP-HOME BLT	70218DL	EXP-HOME BLT	70401RB	EXP-HOME BLT	7040301	EXP-HOME BLT	7040301
EXP-HOME BLT	6250126	EXP-HOME BLT	6250214	EXP-HOME BLT	70218HB	EXP-HOME BLT	70401RT	EXP-HOME BLT	7040302	EXP-HOME BLT	7040302
EXP-HOME BLT	625013M	EXP-HOME BLT	6250222	EXP-HOME BLT	70218K6	EXP-HOME BLT	70401RT	EXP-HOME BLT	7040304	EXP-HOME BLT	7040304
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EXP-HOME BLT	6250145	EXP-HOME BLT	6250303	EXP-HOME BLT	70218SM	EXP-HOME BLT	70401S7	EXP-HOME BLT	7040308	EXP-HOME BLT	7040308
EXP-HOME BLT	625016Q	EXP-HOME BLT	6250306	EXP-HOME BLT	70218SN	EXP-HOME BLT	70401TC	EXP-HOME BLT	7040309	EXP-HOME BLT	7040309
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EXP-HOME BLT	62501AM	EXP-HOME BLT	7001216	EXP-HOME BLT	70218ZA	EXP-HOME BLT	7040205	EXP-HOME BLT	7040318	EXP-HOME BLT	7040318
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EXP-HOME BLT	6250202	EXP-HOME BLT	7020243	EXP-HOME BLT	70401MJ	EXP-HOME BLT	7040266	EXP-HOME BLT	704032L	EXP-HOME BLT	704032L

AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	AIRCRAFT NAME			FAA CODE	
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AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	72202P4	EXP-HOME BLT	72202TR	EXP-HOME BLT	7220501	EXP-HOME BLT	7220646
EXP-HOME BLT	72202P8	EXP-HOME BLT	72202TK	EXP-HOME BLT	7220503	EXP-HOME BLT	7220647
EXP-HOME BLT	72202PF	EXP-HOME BLT	72202TV	EXP-HOME BLT	7220505	EXP-HOME BLT	7220651
EXP-HOME BLT	72202PY	EXP-HOME BLT	72202W4	EXP-HOME BLT	7220506	EXP-HOME BLT	7220652
EXP-HOME BLT	72202Q0	EXP-HOME BLT	72202U6	EXP-HOME BLT	7220507	EXP-HOME BLT	7220653
EXP-HOME BLT	72202Q1	EXP-HOME BLT	72202V6	EXP-HOME BLT	7220510	EXP-HOME BLT	7220655
EXP-HOME BLT	72202Q2	EXP-HOME BLT	72202UG	EXP-HOME BLT	7220514	EXP-HOME BLT	7220656
EXP-HOME BLT	72202Q3	EXP-HOME BLT	72202VJ	EXP-HOME BLT	7220515	EXP-HOME BLT	7220657
EXP-HOME BLT	72202Q5	EXP-HOME BLT	72202WT	EXP-HOME BLT	7220519	EXP-HOME BLT	7220659
EXP-HOME BLT	72202Q6	EXP-HOME BLT	72202X4	EXP-HOME BLT	7220520	EXP-HOME BLT	7220660
EXP-HOME BLT	72202Q9	EXP-HOME BLT	72202W6	EXP-HOME BLT	7220521	EXP-HOME BLT	7220662
EXP-HOME BLT	72202QA	EXP-HOME BLT	72202V6	EXP-HOME BLT	7220524	EXP-HOME BLT	7220663
EXP-HOME BLT	72202QB	EXP-HOME BLT	72202VS	EXP-HOME BLT	7220526	EXP-HOME BLT	7220665
EXP-HOME BLT	72202QD	EXP-HOME BLT	72202V6	EXP-HOME BLT	7220527	EXP-HOME BLT	7220666
EXP-HOME BLT	72202QY	EXP-HOME BLT	72202V6	EXP-HOME BLT	7220528	EXP-HOME BLT	7220667
EXP-HOME BLT	72202R0	EXP-HOME BLT	72202WU	EXP-HOME BLT	7220529	EXP-HOME BLT	7220668
EXP-HOME BLT	72202R1	EXP-HOME BLT	72202WJ	EXP-HOME BLT	7220532	EXP-HOME BLT	7220669
EXP-HOME BLT	72202R2	EXP-HOME BLT	72202Y6	EXP-HOME BLT	7220533	EXP-HOME BLT	7220670
EXP-HOME BLT	72202R3	EXP-HOME BLT	72202Y7	EXP-HOME BLT	7220536	EXP-HOME BLT	7220672
EXP-HOME BLT	72202R5	EXP-HOME BLT	72202Y9	EXP-HOME BLT	7220540	EXP-HOME BLT	7220675
EXP-HOME BLT	72202R7	EXP-HOME BLT	72202Z3	EXP-HOME BLT	7220602	EXP-HOME BLT	7220676
EXP-HOME BLT	72202R9	EXP-HOME BLT	72202Z5	EXP-HOME BLT	7220605	EXP-HOME BLT	7220677
EXP-HOME BLT	72202RD	EXP-HOME BLT	72202Z6	EXP-HOME BLT	7220606	EXP-HOME BLT	7220678
EXP-HOME BLT	72202RJ	EXP-HOME BLT	72202Z9	EXP-HOME BLT	7220610	EXP-HOME BLT	7220679
EXP-HOME BLT	72202RW	EXP-HOME BLT	72202ZA	EXP-HOME BLT	7220613	EXP-HOME BLT	7220682
EXP-HOME BLT	72202RZ	EXP-HOME BLT	72202ZB	EXP-HOME BLT	7220615	EXP-HOME BLT	7220683
EXP-HOME BLT	72202S1	EXP-HOME BLT	72202ZC	EXP-HOME BLT	7220616	EXP-HOME BLT	7220684
EXP-HOME BLT	72202S8	EXP-HOME BLT	72202ZD	EXP-HOME BLT	7220619	EXP-HOME BLT	7220685
EXP-HOME BLT	72202S9	EXP-HOME BLT	72202ZE	EXP-HOME BLT	7220620	EXP-HOME BLT	7220687
EXP-HOME BLT	72202SA	EXP-HOME BLT	72202ZF	EXP-HOME BLT	7220623	EXP-HOME BLT	7220688
EXP-HOME BLT	72202SB	EXP-HOME BLT	72202ZT	EXP-HOME BLT	7220624	EXP-HOME BLT	7220690
EXP-HOME BLT	72202SE	EXP-HOME BLT	72202ZU	EXP-HOME BLT	7220625	EXP-HOME BLT	7220691
EXP-HOME BLT	72202SH	EXP-HOME BLT	72202ZV	EXP-HOME BLT	7220626	EXP-HOME BLT	7220693
EXP-HOME BLT	72202SJ	EXP-HOME BLT	72202ZY	EXP-HOME BLT	7220627	EXP-HOME BLT	7220694
EXP-HOME BLT	72202SL	EXP-HOME BLT	72202Z1	EXP-HOME BLT	7220630	EXP-HOME BLT	7220695
EXP-HOME BLT	72202SM	EXP-HOME BLT	7220301	EXP-HOME BLT	7220632	EXP-HOME BLT	7220698
EXP-HOME BLT	72202SN	EXP-HOME BLT	7220304	EXP-HOME BLT	7220633	EXP-HOME BLT	72206AA
EXP-HOME BLT	72202SR	EXP-HOME BLT	7220305	EXP-HOME BLT	7220635	EXP-HOME BLT	72206AB
EXP-HOME BLT	72202SS	EXP-HOME BLT	7220306	EXP-HOME BLT	7220636	EXP-HOME BLT	72206AG
EXP-HOME BLT	72202ST	EXP-HOME BLT	7220307	EXP-HOME BLT	7220637	EXP-HOME BLT	72206AH
EXP-HOME BLT	72202SV	EXP-HOME BLT	7220309	EXP-HOME BLT	7220640	EXP-HOME BLT	72206AJ
EXP-HOME BLT	72202TA	EXP-HOME BLT	7220310	EXP-HOME BLT	7220641	EXP-HOME BLT	72206AK
EXP-HOME BLT	72202TB	EXP-HOME BLT	722031A	EXP-HOME BLT	7220643	EXP-HOME BLT	72206AL
EXP-HOME BLT	72202TC	EXP-HOME BLT	722032A	EXP-HOME BLT	7220644	EXP-HOME BLT	72206AM
EXP-HOME BLT	72202TG	EXP-HOME BLT		EXP-HOME BLT		EXP-HOME BLT	

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	7483006	EXP-HOME BLT	835010R	EXP-HOME BLT	83501JH	EXP-HOME BLT	83501YB	EXP-HOME BLT	86501PG
EXP-HOME BLT	7710103	EXP-HOME BLT	835010U	EXP-HOME BLT	83501JK	EXP-HOME BLT	83501YM	EXP-HOME BLT	8650204
EXP-HOME BLT	7900101	EXP-HOME BLT	835011Q	EXP-HOME BLT	83501JT	EXP-HOME BLT	83501YS	EXP-HOME BLT	865020D
EXP-HOME BLT	7900103	EXP-HOME BLT	8350121	EXP-HOME BLT	83501JV	EXP-HOME BLT	83501Z3	EXP-HOME BLT	865020G
EXP-HOME BLT	7900105	EXP-HOME BLT	835012F	EXP-HOME BLT	83501JM	EXP-HOME BLT	83501ZA	EXP-HOME BLT	865020L
EXP-HOME BLT	79001AP	EXP-HOME BLT	835012G	EXP-HOME BLT	83501JX	EXP-HOME BLT	8350202	EXP-HOME BLT	865020M
EXP-HOME BLT	79001AQ	EXP-HOME BLT	835012J	EXP-HOME BLT	83501JY	EXP-HOME BLT	8350203	EXP-HOME BLT	865021K
EXP-HOME BLT	79001AR	EXP-HOME BLT	835012R	EXP-HOME BLT	83501JZ	EXP-HOME BLT	8350205	EXP-HOME BLT	865021V
EXP-HOME BLT	79001AS	EXP-HOME BLT	8350137	EXP-HOME BLT	83501K9	EXP-HOME BLT	8350206	EXP-HOME BLT	865022A
EXP-HOME BLT	79001B1	EXP-HOME BLT	8350143	EXP-HOME BLT	83501KZ	EXP-HOME BLT	8350207	EXP-HOME BLT	865022C
EXP-HOME BLT	79001C0	EXP-HOME BLT	8350165	EXP-HOME BLT	83501L5	EXP-HOME BLT	8350208	EXP-HOME BLT	865022R
EXP-HOME BLT	79001CX	EXP-HOME BLT	835016K	EXP-HOME BLT	83501LD	EXP-HOME BLT	8350209	EXP-HOME BLT	86502B3
EXP-HOME BLT	79001E4	EXP-HOME BLT	8350179	EXP-HOME BLT	83501LK	EXP-HOME BLT	8350210	EXP-HOME BLT	86502B8
EXP-HOME BLT	79001EP	EXP-HOME BLT	835017H	EXP-HOME BLT	83501LV	EXP-HOME BLT	8350212	EXP-HOME BLT	86502BF
EXP-HOME BLT	79001F6	EXP-HOME BLT	835017J	EXP-HOME BLT	83501LW	EXP-HOME BLT	8350213	EXP-HOME BLT	86502BG
EXP-HOME BLT	79001F9	EXP-HOME BLT	8350186	EXP-HOME BLT	83501MF	EXP-HOME BLT	8350214	EXP-HOME BLT	86502BP
EXP-HOME BLT	79001FG	EXP-HOME BLT	835018B	EXP-HOME BLT	83501MR	EXP-HOME BLT	8350215	EXP-HOME BLT	86502B9
EXP-HOME BLT	79001FK	EXP-HOME BLT	835018M	EXP-HOME BLT	83501N7	EXP-HOME BLT	8350218	EXP-HOME BLT	86502BX
EXP-HOME BLT	79001F1	EXP-HOME BLT	835018X	EXP-HOME BLT	83501NX	EXP-HOME BLT	8350219	EXP-HOME BLT	86502BZ
EXP-HOME BLT	79001FV	EXP-HOME BLT	83501AC	EXP-HOME BLT	83501P3	EXP-HOME BLT	8350221	EXP-HOME BLT	86502CB
EXP-HOME BLT	79001LV	EXP-HOME BLT	83501AU	EXP-HOME BLT	83501PT	EXP-HOME BLT	8350223	EXP-HOME BLT	86502CT
EXP-HOME BLT	79001LV	EXP-HOME BLT	83501AV	EXP-HOME BLT	83501Q4	EXP-HOME BLT	8350225	EXP-HOME BLT	86502CV
EXP-HOME BLT	79001M6	EXP-HOME BLT	83501C7	EXP-HOME BLT	83501Q9	EXP-HOME BLT	8350226	EXP-HOME BLT	86502CY
EXP-HOME BLT	79001NB	EXP-HOME BLT	83501CB	EXP-HOME BLT	83501QP	EXP-HOME BLT	8350228	EXP-HOME BLT	86502D3
EXP-HOME BLT	79001NR	EXP-HOME BLT	83501CS	EXP-HOME BLT	83501RP	EXP-HOME BLT	8350232	EXP-HOME BLT	86502DH
EXP-HOME BLT	79001QR	EXP-HOME BLT	83501D1	EXP-HOME BLT	83501RV	EXP-HOME BLT	8350237	EXP-HOME BLT	86502DT
EXP-HOME BLT	79001T5	EXP-HOME BLT	83501D4	EXP-HOME BLT	83501RX	EXP-HOME BLT	8350239	EXP-HOME BLT	86502EQ
EXP-HOME BLT	79001T7	EXP-HOME BLT	83501D9	EXP-HOME BLT	83501RY	EXP-HOME BLT	8350240	EXP-HOME BLT	86502FK
EXP-HOME BLT	79001TX	EXP-HOME BLT	83501DH	EXP-HOME BLT	83501S1	EXP-HOME BLT	8350241	EXP-HOME BLT	86502H7
EXP-HOME BLT	79001UJ	EXP-HOME BLT	83501DT	EXP-HOME BLT	83501S3	EXP-HOME BLT	8350246	EXP-HOME BLT	86502HA
EXP-HOME BLT	79001V4	EXP-HOME BLT	83501E5	EXP-HOME BLT	83501S3	EXP-HOME BLT	8350247	EXP-HOME BLT	86502HB
EXP-HOME BLT	79001V8	EXP-HOME BLT	83501E9	EXP-HOME BLT	83501SR	EXP-HOME BLT	8350249	EXP-HOME BLT	86502J2
EXP-HOME BLT	79001V6	EXP-HOME BLT	83501ED	EXP-HOME BLT	83501SV	EXP-HOME BLT	8350250	EXP-HOME BLT	86502J3
EXP-HOME BLT	79001XF	EXP-HOME BLT	83501EG	EXP-HOME BLT	83501TB	EXP-HOME BLT	8350251	EXP-HOME BLT	86502JT
EXP-HOME BLT	79001YV	EXP-HOME BLT	83501EQ	EXP-HOME BLT	83501U8	EXP-HOME BLT	8350252	EXP-HOME BLT	86502KD
EXP-HOME BLT	79001Y2	EXP-HOME BLT	83501G6	EXP-HOME BLT	83501V4	EXP-HOME BLT	8350254	EXP-HOME BLT	86502KE
EXP-HOME BLT	79001Z3	EXP-HOME BLT	83501GF	EXP-HOME BLT	83501VD	EXP-HOME BLT	8350255	EXP-HOME BLT	86502KF
EXP-HOME BLT	79001Z4	EXP-HOME BLT	83501HN	EXP-HOME BLT	83501VG	EXP-HOME BLT	8350256	EXP-HOME BLT	86502KG
EXP-HOME BLT	8050501	EXP-HOME BLT	83501HX	EXP-HOME BLT	83501VJ	EXP-HOME BLT	8350258	EXP-HOME BLT	86502KK
EXP-HOME BLT	8050515	EXP-HOME BLT	83501J0	EXP-HOME BLT	83501VP	EXP-HOME BLT	8350259	EXP-HOME BLT	86502KL
EXP-HOME BLT	8070503	EXP-HOME BLT	83501J1	EXP-HOME BLT	83501W5	EXP-HOME BLT	8350264	EXP-HOME BLT	86502K2
EXP-HOME BLT	835010A	EXP-HOME BLT	83501J3	EXP-HOME BLT	83501X4	EXP-HOME BLT	8350265	EXP-HOME BLT	86502L3
EXP-HOME BLT	835010D	EXP-HOME BLT	83501J9	EXP-HOME BLT	83501XJ	EXP-HOME BLT	8430402	EXP-HOME BLT	86502L6

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AIRCRAFT GROUP NAME
FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	86502LZ	EXP-HOME BLT	86504Y7	EXP-HOME BLT	8650912	EXP-HOME BLT	8660104	EXP-HOME BLT	8660192
EXP-HOME BLT	86502M1	EXP-HOME BLT	86504YS	EXP-HOME BLT	8650913	EXP-HOME BLT	8660108	EXP-HOME BLT	8660193
EXP-HOME BLT	86502MF	EXP-HOME BLT	86504Z4	EXP-HOME BLT	8650915	EXP-HOME BLT	8660120	EXP-HOME BLT	8660194
EXP-HOME BLT	86502NB	EXP-HOME BLT	86504ZQ	EXP-HOME BLT	8650917	EXP-HOME BLT	8660121	EXP-HOME BLT	8660196
EXP-HOME BLT	86502NC	EXP-HOME BLT	865052D	EXP-HOME BLT	8650918	EXP-HOME BLT	8660122	EXP-HOME BLT	8660197
EXP-HOME BLT	86502P5	EXP-HOME BLT	86505GG	EXP-HOME BLT	86509J3	EXP-HOME BLT	8660126	EXP-HOME BLT	86601AG
EXP-HOME BLT	86502PH	EXP-HOME BLT	86505GH	EXP-HOME BLT	86509J4	EXP-HOME BLT	8660128	EXP-HOME BLT	86601AH
EXP-HOME BLT	86502QA	EXP-HOME BLT	86505GL	EXP-HOME BLT	86509LZ	EXP-HOME BLT	8660129	EXP-HOME BLT	86601AK
EXP-HOME BLT	86502QZ	EXP-HOME BLT	86505P7	EXP-HOME BLT	86509NA	EXP-HOME BLT	8660131	EXP-HOME BLT	86601AL
EXP-HOME BLT	86502R5	EXP-HOME BLT	86505SA	EXP-HOME BLT	86509NB	EXP-HOME BLT	8660132	EXP-HOME BLT	86601AN
EXP-HOME BLT	86502S1	EXP-HOME BLT	86505SF	EXP-HOME BLT	86509ND	EXP-HOME BLT	8660135	EXP-HOME BLT	86601AP
EXP-HOME BLT	86502S5	EXP-HOME BLT	86505SJ	EXP-HOME BLT	86509NE	EXP-HOME BLT	8660136	EXP-HOME BLT	86601AQ
EXP-HOME BLT	86502S7	EXP-HOME BLT	86505T1	EXP-HOME BLT	86509NF	EXP-HOME BLT	8660138	EXP-HOME BLT	86601AS
EXP-HOME BLT	86502TB	EXP-HOME BLT	86505TE	EXP-HOME BLT	86509NH	EXP-HOME BLT	8660141	EXP-HOME BLT	86601AT
EXP-HOME BLT	86502U3	EXP-HOME BLT	86505TH	EXP-HOME BLT	86509NJ	EXP-HOME BLT	8660144	EXP-HOME BLT	86601HC
EXP-HOME BLT	86502V9	EXP-HOME BLT	86505TW	EXP-HOME BLT	86509NK	EXP-HOME BLT	8660146	EXP-HOME BLT	86601J4
EXP-HOME BLT	86502VW	EXP-HOME BLT	86505UJ	EXP-HOME BLT	86509NL	EXP-HOME BLT	8660148	EXP-HOME BLT	86601J2
EXP-HOME BLT	86502W5	EXP-HOME BLT	86505VD	EXP-HOME BLT	86509PC	EXP-HOME BLT	8660153	EXP-HOME BLT	86601KC
EXP-HOME BLT	86502WV	EXP-HOME BLT	86505VN	EXP-HOME BLT	8651010	EXP-HOME BLT	8660157	EXP-HOME BLT	86601KF
EXP-HOME BLT	86502X4	EXP-HOME BLT	86505VT	EXP-HOME BLT	8651101	EXP-HOME BLT	8660160	EXP-HOME BLT	86601KJ
EXP-HOME BLT	86502X6	EXP-HOME BLT	86505VZ	EXP-HOME BLT	8651104	EXP-HOME BLT	8660161	EXP-HOME BLT	86601KN
EXP-HOME BLT	86502XR	EXP-HOME BLT	86505VW	EXP-HOME BLT	8651105	EXP-HOME BLT	8660162	EXP-HOME BLT	86601LA
EXP-HOME BLT	86502Y7	EXP-HOME BLT	8650601	EXP-HOME BLT	8651106	EXP-HOME BLT	8660164	EXP-HOME BLT	86601LB
EXP-HOME BLT	86502ZH	EXP-HOME BLT	8650602	EXP-HOME BLT	8651107	EXP-HOME BLT	8660165	EXP-HOME BLT	86601LC
EXP-HOME BLT	86502ZT	EXP-HOME BLT	8650605	EXP-HOME BLT	8651108	EXP-HOME BLT	8660166	EXP-HOME BLT	86601LD
EXP-HOME BLT	8650423	EXP-HOME BLT	8650606	EXP-HOME BLT	8651109	EXP-HOME BLT	8660167	EXP-HOME BLT	86601LE
EXP-HOME BLT	865042A	EXP-HOME BLT	8650607	EXP-HOME BLT	8651110	EXP-HOME BLT	8660168	EXP-HOME BLT	86601LG
EXP-HOME BLT	8650430	EXP-HOME BLT	8650610	EXP-HOME BLT	8651111	EXP-HOME BLT	8660170	EXP-HOME BLT	86601LH
EXP-HOME BLT	865043T	EXP-HOME BLT	8650612	EXP-HOME BLT	8651202	EXP-HOME BLT	8660173	EXP-HOME BLT	86601LI
EXP-HOME BLT	865045D	EXP-HOME BLT	8650613	EXP-HOME BLT	8651203	EXP-HOME BLT	8660174	EXP-HOME BLT	86601LJ
EXP-HOME BLT	865045U	EXP-HOME BLT	8650614	EXP-HOME BLT	8651204	EXP-HOME BLT	8660175	EXP-HOME BLT	86601LL
EXP-HOME BLT	865048G	EXP-HOME BLT	8650615	EXP-HOME BLT	8651205	EXP-HOME BLT	8660176	EXP-HOME BLT	86601LM
EXP-HOME BLT	865048X	EXP-HOME BLT	8650617	EXP-HOME BLT	8651207	EXP-HOME BLT	8660178	EXP-HOME BLT	86601LN
EXP-HOME BLT	865048Z	EXP-HOME BLT	8650618	EXP-HOME BLT	8651210	EXP-HOME BLT	8660179	EXP-HOME BLT	86601LX
EXP-HOME BLT	86504AA	EXP-HOME BLT	8650803	EXP-HOME BLT	8651211	EXP-HOME BLT	8660181	EXP-HOME BLT	86601MO
EXP-HOME BLT	86504CB	EXP-HOME BLT	8650804	EXP-HOME BLT	8651213	EXP-HOME BLT	8660182	EXP-HOME BLT	86601MI
EXP-HOME BLT	86504H7	EXP-HOME BLT	8650807	EXP-HOME BLT	8651215	EXP-HOME BLT	8660183	EXP-HOME BLT	86601M2
EXP-HOME BLT	86504JA	EXP-HOME BLT	8650905	EXP-HOME BLT	8651218	EXP-HOME BLT	8660184	EXP-HOME BLT	86601M4
EXP-HOME BLT	86504SF	EXP-HOME BLT	8650906	EXP-HOME BLT	8651219	EXP-HOME BLT	8660185	EXP-HOME BLT	86601M5
EXP-HOME BLT	86504TK	EXP-HOME BLT	8650908	EXP-HOME BLT	8651220	EXP-HOME BLT	8660187	EXP-HOME BLT	86601M7
EXP-HOME BLT	86504TX	EXP-HOME BLT	8650909	EXP-HOME BLT	8651221	EXP-HOME BLT	8660189	EXP-HOME BLT	86601M9
EXP-HOME BLT	86504X4	EXP-HOME BLT	8650911	EXP-HOME BLT	8660102	EXP-HOME BLT	8660191	EXP-HOME BLT	86601MH

FAA MANUFACTURER/MODEL CODES

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	AIRCRAFT GROUP NAME
	FAA MANUFACTURER/MODEL CODES

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AIRCRAFT GROUP NAME FAA MANUFACTURER/MODEL CODES

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	89510L8	EXP-HOME BLT	89510TK	EXP-HOME BLT	95702JP	EXP-HOME BLT	9570365	EXP-HOME BLT	957052P
EXP-HOME BLT	89510M1	EXP-HOME BLT	89510TP	EXP-HOME BLT	95702JT	EXP-HOME BLT	9570401	EXP-HOME BLT	957052R
EXP-HOME BLT	89510M2	EXP-HOME BLT	89510TU	EXP-HOME BLT	95702NR	EXP-HOME BLT	9570402	EXP-HOME BLT	957052S
EXP-HOME BLT	89510M4	EXP-HOME BLT	89510TX	EXP-HOME BLT	95702TM	EXP-HOME BLT	9570404	EXP-HOME BLT	957052T
EXP-HOME BLT	89510M8	EXP-HOME BLT	89510TY	EXP-HOME BLT	95702WC	EXP-HOME BLT	9570408	EXP-HOME BLT	957052X
EXP-HOME BLT	89510M9	EXP-HOME BLT	89510TZ	EXP-HOME BLT	95702WK	EXP-HOME BLT	9570409	EXP-HOME BLT	957052Y
EXP-HOME BLT	89510N1	EXP-HOME BLT	89510U3	EXP-HOME BLT	95702WN	EXP-HOME BLT	9570410	EXP-HOME BLT	957052Z
EXP-HOME BLT	89510N5	EXP-HOME BLT	89510U4	EXP-HOME BLT	95702WV	EXP-HOME BLT	9570411	EXP-HOME BLT	9570531
EXP-HOME BLT	89510N8	EXP-HOME BLT	89510U5	EXP-HOME BLT	95702XD	EXP-HOME BLT	9570413	EXP-HOME BLT	9570538
EXP-HOME BLT	89510N9	EXP-HOME BLT	89510U6	EXP-HOME BLT	95702XJ	EXP-HOME BLT	9570416	EXP-HOME BLT	957053A
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EXP-HOME BLT	89510TH	EXP-HOME BLT	95702JL	EXP-HOME BLT					

AIRCRAFT GROUP NAME	FAA MANUFACTURER/MODEL CODES
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-HOME BLT	9570759	EXP-HOME BLT	9570859	EXP-HOME BLT	95708CM	EXP-HOME BLT	9790293
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EXP-HOME BLT	9570766	EXP-HOME BLT	9570865	EXP-HOME BLT	95708CT	EXP-HOME BLT	9790298
EXP-HOME BLT	9570768	EXP-HOME BLT	9570867	EXP-HOME BLT	95708CW	EXP-HOME BLT	9790299
EXP-HOME BLT	9570769	EXP-HOME BLT	9570868	EXP-HOME BLT	95708D1	EXP-HOME BLT	979029J
EXP-HOME BLT	9570770	EXP-HOME BLT	9570870	EXP-HOME BLT	95708DA	EXP-HOME BLT	979029L
EXP-HOME BLT	9570780	EXP-HOME BLT	9570875	EXP-HOME BLT	95708DG	EXP-HOME BLT	97902A3
EXP-HOME BLT	9570782	EXP-HOME BLT	9570879	EXP-HOME BLT	95708DH	EXP-HOME BLT	97902A4
EXP-HOME BLT	9570784	EXP-HOME BLT	9570880	EXP-HOME BLT	95708DJ	EXP-HOME BLT	97902A5
EXP-HOME BLT	9570785	EXP-HOME BLT	9570882	EXP-HOME BLT	95708DN	EXP-HOME BLT	97902B1
EXP-HOME BLT	9570787	EXP-HOME BLT	9570884	EXP-HOME BLT	95708EB	EXP-HOME BLT	97902B8
EXP-HOME BLT	9570790	EXP-HOME BLT	9570885	EXP-HOME BLT	95708EE	EXP-HOME BLT	97902BL
EXP-HOME BLT	9570792	EXP-HOME BLT	9570886	EXP-HOME BLT	95708EG	EXP-HOME BLT	97902CG
EXP-HOME BLT	9570797	EXP-HOME BLT	9570890	EXP-HOME BLT	95708EJ	EXP-HOME BLT	97902D8
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EXP-HOME BLT	9570856	EXP-HOME BLT	95708CC	EXP-HOME BLT	979028H	EXP-HOME BLT	97902XJ
EXP-HOME BLT	9570858	EXP-HOME BLT	95708CG	EXP-HOME BLT	979028Y	EXP-HOME BLT	97902XL

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
EXP-OTHER	3300435	EXP-OTHER	5120404	EXP-OTHER	7221303	EXP-OTHER	8950104	GLIDER	0200506	EXP-OTHER	8950104	GLIDER	0200506
EXP-OTHER	3300509	EXP-OTHER	5140102	EXP-OTHER	7480301	EXP-OTHER	8951074	GLIDER	0550313	EXP-OTHER	8951074	GLIDER	0550313
EXP-OTHER	3375014	EXP-OTHER	5170311	EXP-OTHER	7484042	EXP-OTHER	8951079	GLIDER	056030N	EXP-OTHER	8951079	GLIDER	056030N
EXP-OTHER	3400210	EXP-OTHER	5170511	EXP-OTHER	7489956	EXP-OTHER	9060202	GLIDER	056035J	EXP-OTHER	9060202	GLIDER	056035J
EXP-OTHER	3550802	EXP-OTHER	5220402	EXP-OTHER	7530200	EXP-OTHER	9230300	GLIDER	056035F	EXP-OTHER	9230300	GLIDER	056035F
EXP-OTHER	3550806	EXP-OTHER	5260209	EXP-OTHER	7990102	EXP-OTHER	9350202	GLIDER	056035H	EXP-OTHER	9350202	GLIDER	056035H
EXP-OTHER	3550812	EXP-OTHER	5263406	EXP-OTHER	8050210	EXP-OTHER	9360202	GLIDER	056036J	EXP-OTHER	9360202	GLIDER	056036J
EXP-OTHER	3581000	EXP-OTHER	5269700	EXP-OTHER	8051404	EXP-OTHER	9570362	GLIDER	0560882	EXP-OTHER	9570362	GLIDER	0560882
EXP-OTHER	3590202	EXP-OTHER	5400104	EXP-OTHER	8059059	EXP-OTHER	957088H	GLIDER	056127Y	EXP-OTHER	957088H	GLIDER	056127Y
EXP-OTHER	363057F	EXP-OTHER	5400110	EXP-OTHER	8059101	EXP-OTHER	9600402	GLIDER	05612FX	EXP-OTHER	9600402	GLIDER	05612FX
EXP-OTHER	3760302	EXP-OTHER	5440102	EXP-OTHER	8071409	EXP-OTHER	9600414	GLIDER	05612HJ	EXP-OTHER	9600414	GLIDER	05612HJ
EXP-OTHER	3760402	EXP-OTHER	5550104	EXP-OTHER	8141603	EXP-OTHER	9600414	GLIDER	056133F	EXP-OTHER	9600414	GLIDER	056133F
EXP-OTHER	3800313	EXP-OTHER	5626020	EXP-OTHER	8141605	FRCHLD24	3370402	GLIDER	05620VR	EXP-OTHER	3370402	GLIDER	05620VR
EXP-OTHER	3800350	EXP-OTHER	5626022	EXP-OTHER	814161E	FRCHLD24	3370408	GLIDER	05620VS	EXP-OTHER	3370408	GLIDER	05620VS
EXP-OTHER	38003FB	EXP-OTHER	5650310	EXP-OTHER	8141800	FRCHLD24	3370414	GLIDER	05620VJ	EXP-OTHER	3370414	GLIDER	05620VJ
EXP-OTHER	3801325	EXP-OTHER	5870206	EXP-OTHER	8141818	FRCHLD24	3370418	GLIDER	0562292	EXP-OTHER	3370418	GLIDER	0562292
EXP-OTHER	3801328	EXP-OTHER	5870222	EXP-OTHER	8143019	FRCHLD24	3370502	GLIDER	05623DA	EXP-OTHER	3370502	GLIDER	05623DA
EXP-OTHER	3801514	EXP-OTHER	5870224	EXP-OTHER	8151607	FRCHLD24	3370508	GLIDER	056231Q	EXP-OTHER	3370508	GLIDER	056231Q
EXP-OTHER	3801953	EXP-OTHER	6120202	EXP-OTHER	8151610	FRCHLD24	3370514	GLIDER	05623PV	EXP-OTHER	3370514	GLIDER	05623PV
EXP-OTHER	3801965	EXP-OTHER	6260102	EXP-OTHER	8270310	FRCHLD24	3370516	GLIDER	05624LQ	EXP-OTHER	3370516	GLIDER	05624LQ
EXP-OTHER	38019VH	EXP-OTHER	6290102	EXP-OTHER	8451018	FRCHLD24	3370520	GLIDER	05644PU	EXP-OTHER	3370520	GLIDER	05644PU
EXP-OTHER	3802502	EXP-OTHER	6400407	EXP-OTHER	8451018	FRCHLD24	3370602	GLIDER	05645RM	EXP-OTHER	3370602	GLIDER	05645RM
EXP-OTHER	3860100	EXP-OTHER	6400445	EXP-OTHER	8451209	FRCHLD24	3370608	GLIDER	0564708	EXP-OTHER	3370608	GLIDER	0564708
EXP-OTHER	3870603	EXP-OTHER	6400446	EXP-OTHER	8660158	FRCHLD24	3370614	GLIDER	0564712	EXP-OTHER	3370614	GLIDER	0564712
EXP-OTHER	3950104	EXP-OTHER	6402319	EXP-OTHER	8660393	FRCHLD24	3370620	GLIDER	0564778	EXP-OTHER	3370620	GLIDER	0564778
EXP-OTHER	3950322	EXP-OTHER	6402521	EXP-OTHER	866039F	FRCHLD24	3370626	GLIDER	0564787	EXP-OTHER	3370626	GLIDER	0564787
EXP-OTHER	3951001	EXP-OTHER	6402610	EXP-OTHER	8680206	FRCHLD24	3370628	GLIDER	0564789	EXP-OTHER	3370628	GLIDER	0564789
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EXP-OTHER	3952803	EXP-OTHER	6560102	EXP-OTHER	8680669	FRCHLD24	3371604	GLIDER	0564794	EXP-OTHER	3371604	GLIDER	0564794
EXP-OTHER	3980200	EXP-OTHER	7040151	EXP-OTHER	8680675	FRCHLD24	3371606	GLIDER	05647A8	EXP-OTHER	3371606	GLIDER	05647A8
EXP-OTHER	4230110	EXP-OTHER	7090202	EXP-OTHER	8680816	FRCHLD24	3371608	GLIDER	05647AR	EXP-OTHER	3371608	GLIDER	05647AR
EXP-OTHER	4230112	EXP-OTHER	7090302	EXP-OTHER	8730202	FRCHLD24	3371618	GLIDER	05647AU	EXP-OTHER	3371618	GLIDER	05647AU
EXP-OTHER	4300400	EXP-OTHER	7090401	EXP-OTHER	8810001	FRCHLD24	3371620	GLIDER	05647BE	EXP-OTHER	3371620	GLIDER	05647BE
EXP-OTHER	4301002	EXP-OTHER	7090501	EXP-OTHER	8821616	FRCHLD24	3371622	GLIDER	05647BF	EXP-OTHER	3371622	GLIDER	05647BF
EXP-OTHER	4360118	EXP-OTHER	7100511	EXP-OTHER	8821644	FRCHLD24	3371624	GLIDER	05647CX	EXP-OTHER	3371624	GLIDER	05647CX
EXP-OTHER	4360810	EXP-OTHER	7101103	EXP-OTHER	8821648	FRCHLD24	3371626	GLIDER	05647DF	EXP-OTHER	3371626	GLIDER	05647DF
EXP-OTHER	4490103	EXP-OTHER	7101202	EXP-OTHER	8821688	FRCHLD24	3371628	GLIDER	05647DM	EXP-OTHER	3371628	GLIDER	05647DM
EXP-OTHER	4560404	EXP-OTHER	7101817	EXP-OTHER	8822001	FRCHLD24	3371630	GLIDER	05647EA	EXP-OTHER	3371630	GLIDER	05647EA
EXP-OTHER	4651004	EXP-OTHER	7102311	EXP-OTHER	8850340	FRCHLD24	3371632	GLIDER	05647ED	EXP-OTHER	3371632	GLIDER	05647ED
EXP-OTHER	4820101	EXP-OTHER	7103102	EXP-OTHER	8850908	FRCHLD24	3371644	GLIDER	05647EQ	EXP-OTHER	3371644	GLIDER	05647EQ
EXP-OTHER	5100108	EXP-OTHER	7104101	EXP-OTHER	8850911	FRCHLD24	3374004	GLIDER	05647ET	EXP-OTHER	3374004	GLIDER	05647ET
EXP-OTHER	5100203	EXP-OTHER	7104800	EXP-OTHER	8890602	FRCHLD24	3374006	GLIDER	05647FL	EXP-OTHER	3374006	GLIDER	05647FL
EXP-OTHER	5110322	EXP-OTHER	7220729	EXP-OTHER	8930110	GLIDER	0130202	GLIDER	05647FQ	EXP-OTHER	0130202	GLIDER	05647FQ

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
GLIDER	05647FT	GLIDER	1130819	GLIDER	1990104	GLIDER	3801545	GLIDER	5760104
GLIDER	05647GJ	GLIDER	1130824	GLIDER	1990108	GLIDER	3801551	GLIDER	5760202
GLIDER	05647GM	GLIDER	1130825	GLIDER	1990112	GLIDER	3801554	GLIDER	5760204
GLIDER	05647GR	GLIDER	1130826	GLIDER	2000102	GLIDER	3801559	GLIDER	5760206
GLIDER	05647HX	GLIDER	1130829	GLIDER	2480122	GLIDER	3801563	GLIDER	6200102
GLIDER	05647J7	GLIDER	1130832	GLIDER	2480124	GLIDER	3801567	GLIDER	6551115
GLIDER	05647JS	GLIDER	1130833	GLIDER	2480126	GLIDER	3801581	GLIDER	6610102
GLIDER	05647JU	GLIDER	1130835	GLIDER	3321206	GLIDER	38015F1	GLIDER	6820502
GLIDER	05647KC	GLIDER	1130844	GLIDER	3321210	GLIDER	38015F2	GLIDER	7090103
GLIDER	05647KF	GLIDER	1130846	GLIDER	3800343	GLIDER	38015GS	GLIDER	7090104
GLIDER	05647KL	GLIDER	1130847	GLIDER	3800344	GLIDER	38015GY	GLIDER	7090105
GLIDER	05647KN	GLIDER	1130848	GLIDER	3800346	GLIDER	38015H2	GLIDER	7090215
GLIDER	05647KT	GLIDER	1130851	GLIDER	3800348	GLIDER	38015H2	GLIDER	7100102
GLIDER	05647LH	GLIDER	1130853	GLIDER	3800425	GLIDER	3801920	GLIDER	7300102
GLIDER	05647LP	GLIDER	1130855	GLIDER	3801049	GLIDER	3801933	GLIDER	7300106
GLIDER	05647MT	GLIDER	1130857	GLIDER	3801211	GLIDER	3801939	GLIDER	79001H7
GLIDER	05647NM	GLIDER	1130858	GLIDER	3801217	GLIDER	3801945	GLIDER	79001HS
GLIDER	05647RL	GLIDER	1130860	GLIDER	3801250	GLIDER	3801951	GLIDER	79001S2
GLIDER	05647TD	GLIDER	1130861	GLIDER	3801251	GLIDER	38019VC	GLIDER	79001T6
GLIDER	05647T2	GLIDER	1130862	GLIDER	3801260	GLIDER	38019VE	GLIDER	79001TK
GLIDER	05647V8	GLIDER	1130867	GLIDER	3801311	GLIDER	38019VL	GLIDER	8050102
GLIDER	05647Y2	GLIDER	1130868	GLIDER	3801315	GLIDER	38019VM	GLIDER	8050104
GLIDER	05647Z6	GLIDER	1360306	GLIDER	3801343	GLIDER	38019VP	GLIDER	8050106
GLIDER	05653M4	GLIDER	1403004	GLIDER	3801351	GLIDER	38019VP	GLIDER	8050107
GLIDER	056598R	GLIDER	1403008	GLIDER	3801359	GLIDER	3802002	GLIDER	8050108
GLIDER	056599G	GLIDER	1403012	GLIDER	3801361	GLIDER	3802051	GLIDER	8050110
GLIDER	056599Q	GLIDER	1403014	GLIDER	3801365	GLIDER	3802065	GLIDER	8050112
GLIDER	05659AC	GLIDER	1403016	GLIDER	3801381	GLIDER	3802219	GLIDER	8050114
GLIDER	05659WX	GLIDER	1660104	GLIDER	3801505	GLIDER	3802433	GLIDER	8050116
GLIDER	056752P	GLIDER	1660106	GLIDER	3801507	GLIDER	3802504	GLIDER	8050118
GLIDER	0567573	GLIDER	1660107	GLIDER	3801508	GLIDER	3802509	GLIDER	8050120
GLIDER	056752L	GLIDER	1660108	GLIDER	3801509	GLIDER	3802510	GLIDER	8050121
GLIDER	0567603	GLIDER	1660109	GLIDER	3801510	GLIDER	3802553	GLIDER	8050122
GLIDER	0567642	GLIDER	1660202	GLIDER	3801515	GLIDER	3802555	GLIDER	8050124
GLIDER	0567679	GLIDER	1660203	GLIDER	3801516	GLIDER	3802556	GLIDER	8050146
GLIDER	05676H4	GLIDER	1660204	GLIDER	3801520	GLIDER	3805010	GLIDER	8050147
GLIDER	05676J3	GLIDER	1660206	GLIDER	3801528	GLIDER	3831000	GLIDER	8050148
GLIDER	05676K5	GLIDER	1660207	GLIDER	3801529	GLIDER	4490102	GLIDER	8050149
GLIDER	05676R9	GLIDER	1660303	GLIDER	3801530	GLIDER	4490106	GLIDER	8050151
GLIDER	0910102	GLIDER	1660304	GLIDER	3801533	GLIDER	5090204	GLIDER	8050153
GLIDER	1000115	GLIDER	1870101	GLIDER	3801535	GLIDER	5090330	GLIDER	8050202
GLIDER	1050300	GLIDER	1981008	GLIDER	3801540	GLIDER	5100102	GLIDER	8050206
GLIDER	1130808	GLIDER	1990101	GLIDER	3801542	GLIDER	5760102	GLIDER	8050502

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GLIDER	8050602	GULSTM112	7630314	GULSTMG1159	3970108	HUGHES369	3027371	HYNESB2	1440504
GLIDER	8050604	GULSTM112	7630315	GULSTMG1159	3970109	HUGHES369	3027372	HYNESB2	1440506
GLIDER	8050608	GULSTM500	0141102	GULSTMG1159	3980100	HUGHES369	3027374	INTRCP200	0140302
GLIDER	8050610	GULSTM500	0141104	GULSTMG1159	3980110	HUGHES369	4470702	INTRCP200	0140312
GLIDER	8050612	GULSTM500	0141106	GULSTMG1159	3980115	HUGHES369	4470706	INTRCP200	5650306
GLIDER	8050614	GULSTM500	0141107	GULSTMG159	3952202	HUGHES369	4470707	INTRCP200	5650308
GLIDER	8050902	GULSTM500	0141108	GULSTMG44	3951502	HUGHES369	4470708	ISRAEL1121	0142002
GLIDER	8050903	GULSTM560	0141402	GULSTMG44	3951508	HUGHES369	4470709	ISRAEL1121	0142006
GLIDER	8051604	GULSTM560	0141404	GULSTMGA7	3960401	HUGHES369	4470718	ISRAEL1121	0142010
GLIDER	8051606	GULSTM560	0141406	HELIOH295	4300802	HUGHES369	4470720	ISRAEL1121	4500100
GLIDER	8053605	GULSTM680	0141408	HELIOH295	4300803	HUGHES369	4470722	ISRAEL1124	4500102
GLIDER	8270302	GULSTM680	0141602	HELIOH295	4301102	HUGHES369	4470728	ISRAEL1124	4500103
GLIDER	8270320	GULSTM680	0141604	HELIOH295	4301104	HUGHES369	4470730	ISRAEL1124	4500305
GLIDER	8320101	GULSTM680	0141608	HILLERUH12	4360102	HUGHES369	4470731	JBMSTRDGA15	4690105
GLIDER	8320102	GULSTM680	0141610	HILLERUH12	4360103	HUGHES369	4470805	JBMSTRDGA15	4690502
GLIDER	8320304	GULSTM680	0141611	HILLERUH12	4360104	HUGHES369	4470806	JBMSTRDGA15	4690506
GLIDER	8320402	GULSTM680	0141612	HILLERUH12	4360105	HUGHES369	4470807	JBMSTRDGA15	4690516
GLIDER	8320602	GULSTM680	0141614	HILLERUH12	4360110	HUGHES369	4470808	LEAR24	5170302
GLIDER	8321008	GULSTM680TP	0141712	HILLERUH12	4360113	HKWSLYDH125	1155400	LEAR24	5170304
GLIDER	8321506	GULSTM680TP	0141714	HILLERUH12	4360114	HKWSLYDH125	1155402	LEAR24	5170306
GLIDER	8321508	GULSTM680TP	0141716	HILLERUH12	4360115	HKWSLYDH125	1500100	LEAR24	5170307
GLIDER	8321510	GULSTM680TP	0141718	HILLERUH12	4360116	HKWSLYDH125	1500101	LEAR24	5170308
GLIDER	8500101	GULSTM680TP	7630511	HILLERUH12	4360117	HKWSLYDH125	1500102	LEAR24	5170310
GLIDER	8501001	GULSTM690TP	0141720	HILLERUH12	4360119	HKWSLYDH125	1500103	LEAR24	5170312
GLIDER	8680694	GULSTM690TP	0141722	HILLERUH12	4360120	HKWSLYDH125	1500104	LEAR24	5170316
GLIDER	8821004	GULSTM690TP	3970405	HILLERUH12	4360122	HKWSLYDH125	1500141	LEAR24	5170317
GLIDER	9820212	GULSTM690TP	3970410	HILLERUH12	4360124	HKWSLYDH125	1500204	LEAR24	5170317
GLIDER	9810105	GULSTM690TP	3970411	HILLERUH12	4360126	HKWSLYDH125	1500205	LEAR25	5170506
GRUMAVAA1	3960100	GULSTM690TP	3970610	HILLERUH12	4360128	HKWSLYDH125	1500206	LEAR25	5170509
GRUMAVAA1	3960102	GULSTM690TP	7630515	HILLERUH12	4360130	HKWSLYDH125	1500287	LEAR25	5170513
GRUMAVAA1	3960103	GULSTM690TP	7630516	HILLERUH12	4360132	HKWSLYDH125	4210101	LEAR35	5170514
GRUMAVAA5	3960104	GULSTM690TP	7630517	HILLERUH12	4360132	HKWSLYDH125	4230102	LEAR35	5170530
GRUMAVAA5	3960105	GULSTM690TP	7630518	HILLERUH12	4360809	HKWSLYDH125	4230106	LEAR35	5170531
GRUMAVG164	39527802	GULSTM690TP	7630519	HUGHES269	4470402	HKWSLYDH125	4230126	LEAR35	5170600
GRUMAVG164	3952804	GULSTMAA1	0630610	HUGHES269	4470403	HKWSLYDH125	423013M	LEAR35	5170601
GRUMAVG164	3952804	GULSTMAA1	0630710	HUGHES269	4470404	HKWSLYDH125	423013P	LEAR35	5170602
GRUMAVG21	3951204	GULSTMAA5	0631410	HUGHES269	4470502	HKWSLYDH125	4230140	LEAR35	5170603
GRUMAVG21	3951214	GULSTMAA5	3960106	HUGHES269	4470503	HKWSLYDH125	4230145	LEAR55	5170802
GLIDSTM112	0144701	GULSTMAA5	3970104	HUGHES269	4470504	HKWSLYDH125	4230146	LEAR55	5170702
GLIDSTM112	7630301	GULSTMAA5	3970106	HUGHES269	4471004	HKWSLYDH125	4230158	LEAR55	5170705
GLIDSTM112	7630302	GULSTMG1159	3953505	HUGHES369	8059502	HKWSLYDH125	4230160	LKHEED1329	5263102
GLIDSTM112	7630306	GULSTMG1159	3953535	HUGHES369	3027369	HKWSLYDH125	4230170	LKHEED1329	5263103
GLIDSTM112	7630307	GULSTMG1159	3960302	HUGHES369	3027370	HYNESB2	1440502	LKHEED1329	5263108

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LKHEED1329	5263119	LTR THAN AIR	05637BF	LTR THAN AIR	05637T7	LTR THAN AIR	1880208	LTR THAN AIR	2301213
LKHEED1329	5263125	LTR THAN AIR	05637BG	LTR THAN AIR	05637T8	LTR THAN AIR	1880210	LTR THAN AIR	2301214
LTR THAN AIR	0050100	LTR THAN AIR	05637BJ	LTR THAN AIR	056477G	LTR THAN AIR	1880211	LTR THAN AIR	2301215
LTR THAN AIR	0050101	LTR THAN AIR	05637BL	LTR THAN AIR	0566705	LTR THAN AIR	1880212	LTR THAN AIR	2301216
LTR THAN AIR	0050103	LTR THAN AIR	05637BU	LTR THAN AIR	0566709	LTR THAN AIR	1880213	LTR THAN AIR	2301217
LTR THAN AIR	0050105	LTR THAN AIR	05637BY	LTR THAN AIR	0900104	LTR THAN AIR	1880215	LTR THAN AIR	2301218
LTR THAN AIR	0050112	LTR THAN AIR	05637BZ	LTR THAN AIR	0900107	LTR THAN AIR	1880216	LTR THAN AIR	2301219
LTR THAN AIR	0050202	LTR THAN AIR	05637CC	LTR THAN AIR	0900110	LTR THAN AIR	1880217	LTR THAN AIR	2301220
LTR THAN AIR	0050204	LTR THAN AIR	05637CD	LTR THAN AIR	1020110	LTR THAN AIR	1880218	LTR THAN AIR	2301221
LTR THAN AIR	0050302	LTR THAN AIR	05637CE	LTR THAN AIR	1050100	LTR THAN AIR	1880219	LTR THAN AIR	2301222
LTR THAN AIR	0050450	LTR THAN AIR	05637CF	LTR THAN AIR	1050101	LTR THAN AIR	1880220	LTR THAN AIR	2301223
LTR THAN AIR	0050460	LTR THAN AIR	05637CK	LTR THAN AIR	1050102	LTR THAN AIR	1880221	LTR THAN AIR	2301224
LTR THAN AIR	05604UH	LTR THAN AIR	05637CL	LTR THAN AIR	1050107	LTR THAN AIR	1880225	LTR THAN AIR	2301225
LTR THAN AIR	05604XU	LTR THAN AIR	05637CN	LTR THAN AIR	1050109	LTR THAN AIR	1880228	LTR THAN AIR	2301226
LTR THAN AIR	05613X8	LTR THAN AIR	05637CU	LTR THAN AIR	1050110	LTR THAN AIR	1880233	LTR THAN AIR	2301227
LTR THAN AIR	056202L	LTR THAN AIR	05637CV	LTR THAN AIR	1050111	LTR THAN AIR	1880245	LTR THAN AIR	2301228
LTR THAN AIR	05620HQ	LTR THAN AIR	05637D5	LTR THAN AIR	1050113	LTR THAN AIR	1880250	LTR THAN AIR	2301229
LTR THAN AIR	056221T	LTR THAN AIR	05637D7	LTR THAN AIR	1050118	LTR THAN AIR	1880251	LTR THAN AIR	3240104
LTR THAN AIR	056226H	LTR THAN AIR	05637DE	LTR THAN AIR	1050119	LTR THAN AIR	1880255	LTR THAN AIR	3240107
LTR THAN AIR	05622ER	LTR THAN AIR	05637DL	LTR THAN AIR	1050120	LTR THAN AIR	1880260	LTR THAN AIR	3240206
LTR THAN AIR	05623CS	LTR THAN AIR	05637DV	LTR THAN AIR	1050121	LTR THAN AIR	1880261	LTR THAN AIR	3240207
LTR THAN AIR	05623GK	LTR THAN AIR	05637DP	LTR THAN AIR	1050130	LTR THAN AIR	1880262	LTR THAN AIR	3410101
LTR THAN AIR	05623J4	LTR THAN AIR	05637DV	LTR THAN AIR	1050130	LTR THAN AIR	1880264	LTR THAN AIR	3410102
LTR THAN AIR	05623W1	LTR THAN AIR	05637DZ	LTR THAN AIR	1050201	LTR THAN AIR	1880266	LTR THAN AIR	3410103
LTR THAN AIR	05624AC	LTR THAN AIR	05637E4	LTR THAN AIR	1070100	LTR THAN AIR	1880271	LTR THAN AIR	3410104
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LTR THAN AIR	0562717	LTR THAN AIR	05637EH	LTR THAN AIR	1880110	LTR THAN AIR	1880288	LTR THAN AIR	3760525
LTR THAN AIR	0562732	LTR THAN AIR	05637F7	LTR THAN AIR	1880112	LTR THAN AIR	1880288	LTR THAN AIR	3760530
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LTR THAN AIR	0563749	LTR THAN AIR	05637G7	LTR THAN AIR	1880119	LTR THAN AIR	2300150	LTR THAN AIR	3850001
LTR THAN AIR	0563791	LTR THAN AIR	05637K2	LTR THAN AIR	1880120	LTR THAN AIR	2300160	LTR THAN AIR	3850101
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LTR THAN AIR	05637A1	LTR THAN AIR	05637M1	LTR THAN AIR	1880122	LTR THAN AIR	2301200	LTR THAN AIR	3870142
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LTR THAN AIR	05637AF	LTR THAN AIR	05637P3	LTR THAN AIR	1880204	LTR THAN AIR	2301209	LTR THAN AIR	3870221
LTR THAN AIR	05637AY	LTR THAN AIR	05637P9	LTR THAN AIR	1880205	LTR THAN AIR	2301209	LTR THAN AIR	4280100
LTR THAN AIR	05637BB	LTR THAN AIR	05637R1	LTR THAN AIR	1880206	LTR THAN AIR	2301210	LTR THAN AIR	4280101
LTR THAN AIR	05637BE	LTR THAN AIR	05637T5	LTR THAN AIR	1880207	LTR THAN AIR	2301211	LTR THAN AIR	4280200
						LTR THAN AIR	2301212	LTR THAN AIR	4280202

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LTR THAN AIR	6113310	LTR THAN AIR	8070802	LUSCOM8	8190117	MEMG HEL(14)	1182106	MNMITEM18	5870101
LTR THAN AIR	6113312	LTR THAN AIR	8071408	LUSCOM8	8190118	MEMG HEL(14)	13015GL	MNMITEM18	5870102
LTR THAN AIR	6113319	LTR THAN AIR	8071701	LUSCOM8	8190120	MEMG HEL(14)	13015GM	MNMITEM18	5870104
LTR THAN AIR	6113320	LTR THAN AIR	8071802	LUSCOM8	8190122	MEMG HEL(14)	13015GQ	MNMITEM18	5870106
LTR THAN AIR	6113321	LTR THAN AIR	8280041	LUSCOM8	8190124	MEMG HEL(14)	1302902	MNMITEM18	5870108
LTR THAN AIR	7001000	LTR THAN AIR	8970100	LUSCOM8	8190126	MEMG HEL(14)	1385005	MOONEYM20	5870202
LTR THAN AIR	7001218	LTR THAN AIR	8970102	LUSCOM8	8190128	MEMG HEL(14)	1385007	MOONEYM20	5870204
LTR THAN AIR	7480109	LTR THAN AIR	8970103	LUSCOM8	8190130	MEMG HEL(14)	1385049	MOONEYM20	5870208
LTR THAN AIR	7480204	LTR THAN AIR	8970105	LUSCOM8	8190132	MEMG HEL(14)	4360402	MOONEYM20	5870210
LTR THAN AIR	7480402	LTR THAN AIR	8970107	LUSCOM8	8190154	MEMG HEL(14)	5626024	MOONEYM20	5870212
LTR THAN AIR	7480501	LTR THAN AIR	8970108	MAULEM4	5460102	MEMG HEL(14)	8141402	MOONEYM20	5870214
LTR THAN AIR	7480502	LTR THAN AIR	8970109	MAULEM4	5460104	MEMG HEL(14)	8141402	MOONEYM20	5870216
LTR THAN AIR	7480503	LTR THAN AIR	8970110	MAULEM4	5460105	MEMG HEL(14)	8142101	MOONEYM20	5870219
LTR THAN AIR	7480606	LTR THAN AIR	8970111	MAULEM4	5460106	MEMG HEL(14)	8142102	MOONEYM20	5870221
LTR THAN AIR	7480609	LTR THAN AIR	8970112	MAULEM4	5460108	MEMG HEL(14)	8142104	MOONEYM20	5870220
LTR THAN AIR	7480611	LTR THAN AIR	8970113	MAULEM4	5460112	MEMG HEL(14)	8142107	MOONEYM20	5870312
LTR THAN AIR	7480612	LTR THAN AIR	8970116	MAULEM4	5460114	MEMG HEL(14)	8142108	MOONEYM20	5870312
LTR THAN AIR	7480650	LTR THAN AIR	8970120	MAULEM4	5460128	MEMG HEL(14)	814210C	MOONEYM20	5870314
LTR THAN AIR	7483202	LTR THAN AIR	8970121	MAULEM5	5460132	MEMG HEL(14)	814210N	MOONEYM20	5870601
LTR THAN AIR	7484049	LTR THAN AIR	8970122	MAULEM5	5460133	MEMG HEL(14)	8142110	MOONEYM20	5870604
LTR THAN AIR	7484058	LTR THAN AIR	8970122	MAULEM5	5460134	MEMG HEL(14)	8142604	MOONEYM20	5870605
LTR THAN AIR	7485050	LTR THAN AIR	8970123	MAULEM5	5460135	MEMG HEL(14)	8142610	MTSBSIHU2	5780404
LTR THAN AIR	7485052	LTR THAN AIR	8970124	MAULEM5	5460137	MEMG HEL(14)	8142620	MTSBSIHU2	5780406
LTR THAN AIR	7485055	LTR THAN AIR	8970125	MAULEM5	5460204	MEMG HEL(14)	8143072	MTSBSIHU2	5780407
LTR THAN AIR	7485057	LTR THAN AIR	8970126	MAULEM5	5470006	MEMG HEL(14)	8680668	MTSBSIHU2	5780408
LTR THAN AIR	7485058	LTR THAN AIR	8970128	MAULEM5	5470010	MEMG HEL(14)	8680804	MTSBSIHU2	5780409
LTR THAN AIR	7486006	LTR THAN AIR	8970129	MAULEM6	5460138	MEMG HEL(14)	8680808	MTSBSIHU2	5780410
LTR THAN AIR	7486060	LTR THAN AIR	8970130	MAULEM6	5460139	MEMG HEL(14)	8680809	MTSBSIHU2	5780411
LTR THAN AIR	7486066	LTR THAN AIR	8970131	MAULEM6	5460140	MEMG HEL(14)	8680815	MTSBSIHU2	5780412
LTR THAN AIR	7486067	LTR THAN AIR	95708AA	MAULEM6	5460160	MEMG HEL(14)	8680965	MTSBSIHU2	5780413
LTR THAN AIR	7487007	LTR THAN AIR	95708CQ	MAULEM6	5460161	MEMG HEL(14)	9420602	MTSBSIHU2	5780414
LTR THAN AIR	7487008	LTR THAN AIR	9700101	MAULEM6	5470135	MEMG HEL(14)	9420604	MTSBSIHU2	5780440
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LTR THAN AIR	7487071	LUSCOM8	8190104	MAULEM7	5470207	MILITARY204	1181410	MTSBSIHU300	5781300
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LTR THAN AIR	7487090	LUSCOM8	8190110	MCLISHFUNKB	5480104	MILITARY204	118141B	NAMERT28	6402505
LTR THAN AIR	7487510	LUSCOM8	8190112	MCLISHFUNKB	5480108	MNCUP90	5810102	NAMERT28	6402506
LTR THAN AIR	7487805	LUSCOM8	8190113	MCLISHFUNKB	5480202	MNCUP90	5810104	NAMERT28	6402519
LTR THAN AIR	7487806	LUSCOM8	8190114	MCLISHFUNKB	5480204	MNCUP90	5810107	NAMERT28	6402520
LTR THAN AIR	7487900	LUSCOM8	8190116	MCLISHFUNKB	5480208	MNCUP90	5810130	NAMERT28	6402527

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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NAHRT6	6400399	NAVIONNAVION	6150170	PIPERJ3	7100527	PIPERPA18	7101816	PIPERPA24	7102402
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NAHRT6	6400418	NORST65	6480118	PIPERJ3	7100536	PIPERPA18	7101822	PIPERPA25	7102502
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NAHRT6	6400423	NORST65	6480128	PIPERJ3	7100546	PIPERPA18	7101827	PIPERPA28	7102801
NAHRT6	6400424	NORST65	6480154	PIPERJ3	7100550	PIPERPA18	7101828	PIPERPA28	7102802
NAHRT6	6400425	PIPER600	1710602	PIPERJ3	7100552	PIPERPA18	7101829	PIPERPA28	7102803
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NAVIONNAVION	6150136	PIPERJ3	710051B	PIPERPA18	7101806	PIPERPA23	7102303	PIPERPA31	7103105
NAVIONNAVION	6150140	PIPERJ3	710051D	PIPERPA18	7101808	PIPERPA23	7102304	PIPERPA31	7103110
NAVIONNAVION	6150142	PIPERJ3	7100520	PIPERPA18	7101809	PIPERPA23	7102305	PIPERPA31	7103111
NAVIONNAVION	6150148	PIPERJ3	7100521	PIPERPA18	7101812	PIPERPA23	7102306	PIPERPA31T	7103124
NAVIONNAVION	6150160	PIPERJ3	7100522	PIPERPA18	7101813	PIPERPA23	7102308	PIPERPA31T	7103126

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
PIPERPA31T	7103127	PIST HEL(12)	056226F	PIST HEL(12)	05624D3	PIST HEL(12)	130014M	PIST HEL(12)	1300613
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PIPERPA32	7103209	PIST HEL(12)	056234D	PIST HEL(12)	05624F4	PIST HEL(12)	130015D	PIST HEL(12)	1300758
PIPERPA32	7103211	PIST HEL(12)	056234N	PIST HEL(12)	05624GQ	PIST HEL(12)	130015E	PIST HEL(12)	130079K
PIPERPA32	7103212	PIST HEL(12)	0562381	PIST HEL(12)	05624GT	PIST HEL(12)	130015H	PIST HEL(12)	130079T
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PIST HEL(12)	056224V	PIST HEL(12)	05624CU	PIST HEL(12)	130014G	PIST HEL(12)	1300607	PIST HEL(12)	1301594
									1301595

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
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PIST HEL(12)	13021KS	PIST HEL(12)	13021U1	PIST HEL(12)	13025BN	PIST HEL(12)	13025K9	PIST HEL(12)	13027A9	PIST HEL(12)	13027A9
PIST HEL(12)	13021KW	PIST HEL(12)	13021V6	PIST HEL(12)	13025C1	PIST HEL(12)	13025L6	PIST HEL(12)	13027B1	PIST HEL(12)	13027B1
PIST HEL(12)	13021L6	PIST HEL(12)	13021V9	PIST HEL(12)	13025C2	PIST HEL(12)	13025M1	PIST HEL(12)	13027B2	PIST HEL(12)	13027B2
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PIST HEL(12)	13021LD	PIST HEL(12)	13021ZA	PIST HEL(12)	13025CE	PIST HEL(12)	13025O4	PIST HEL(12)	13027B9	PIST HEL(12)	13027B9
PIST HEL(12)	13021LK	PIST HEL(12)	13021ZC	PIST HEL(12)	13025CF	PIST HEL(12)	13025Q7	PIST HEL(12)	13027C1	PIST HEL(12)	13027C1
PIST HEL(12)	13021LZ	PIST HEL(12)	13021ZF	PIST HEL(12)	13025CH	PIST HEL(12)	13025S8	PIST HEL(12)	13027C3	PIST HEL(12)	13027C3
PIST HEL(12)	13021M1	PIST HEL(12)	13021ZJ	PIST HEL(12)	13025CP	PIST HEL(12)	13025T4	PIST HEL(12)	13027C4	PIST HEL(12)	13027C4
PIST HEL(12)	13021MM	PIST HEL(12)	13021ZM	PIST HEL(12)	13025CQ	PIST HEL(12)	13025T6	PIST HEL(12)	13027C6	PIST HEL(12)	13027C6
PIST HEL(12)	13021MN	PIST HEL(12)	13021ZP	PIST HEL(12)	13025D2	PIST HEL(12)	13025V2	PIST HEL(12)	13027C9	PIST HEL(12)	13027C9
PIST HEL(12)	13021MP	PIST HEL(12)	13021ZR	PIST HEL(12)	13025D4	PIST HEL(12)	13025V6	PIST HEL(12)	13027D1	PIST HEL(12)	13027D1
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PIST HEL(12)	13021NE	PIST HEL(12)	13021ZV	PIST HEL(12)	13025D9	PIST HEL(12)	13025V8	PIST HEL(12)	13027D3	PIST HEL(12)	13027D3
PIST HEL(12)	13021NH	PIST HEL(12)	13021ZY	PIST HEL(12)	13025DT	PIST HEL(12)	13025Y5	PIST HEL(12)	13027D7	PIST HEL(12)	13027D7
PIST HEL(12)	13021NK	PIST HEL(12)	1302208	PIST HEL(12)	13025E8	PIST HEL(12)	13025Y9	PIST HEL(12)	13027D9	PIST HEL(12)	13027D9
PIST HEL(12)	13021NP	PIST HEL(12)	1302209	PIST HEL(12)	13025EB	PIST HEL(12)	13025Y4	PIST HEL(12)	13027E7	PIST HEL(12)	13027E7
PIST HEL(12)	13021NV	PIST HEL(12)	1302305	PIST HEL(12)	13025EC	PIST HEL(12)	13025Y7	PIST HEL(12)	13027FB	PIST HEL(12)	13027FB
PIST HEL(12)	13021PF	PIST HEL(12)	1302407	PIST HEL(12)	13025EG	PIST HEL(12)	13025Y8	PIST HEL(12)	13027FG	PIST HEL(12)	13027FG
PIST HEL(12)	13021PH	PIST HEL(12)	1302411	PIST HEL(12)	13025EH	PIST HEL(12)	1302603	PIST HEL(12)	13027FV	PIST HEL(12)	13027FV
PIST HEL(12)	13021PU	PIST HEL(12)	1302419	PIST HEL(12)	13025EJ	PIST HEL(12)	1302618	PIST HEL(12)	13027GA	PIST HEL(12)	13027GA
PIST HEL(12)	13021PW	PIST HEL(12)	1302424	PIST HEL(12)	13025EU	PIST HEL(12)	1302622	PIST HEL(12)	13027GC	PIST HEL(12)	13027GC
PIST HEL(12)	13021Q4	PIST HEL(12)	1302425	PIST HEL(12)	13025EV	PIST HEL(12)	1302625	PIST HEL(12)	13027GH	PIST HEL(12)	13027GH
PIST HEL(12)	13021QE	PIST HEL(12)	1302514	PIST HEL(12)	13025F3	PIST HEL(12)	1302626	PIST HEL(12)	13027GQ	PIST HEL(12)	13027GQ
PIST HEL(12)	13021QF	PIST HEL(12)	1302516	PIST HEL(12)	13025F5	PIST HEL(12)	1302628	PIST HEL(12)	13027GW	PIST HEL(12)	13027GW
PIST HEL(12)	13021QK	PIST HEL(12)	1302523	PIST HEL(12)	13025FX	PIST HEL(12)	1302628	PIST HEL(12)	13027HK	PIST HEL(12)	13027HK
PIST HEL(12)	13021QN	PIST HEL(12)	1302539	PIST HEL(12)	13025FY	PIST HEL(12)	1302703	PIST HEL(12)	13027HQ	PIST HEL(12)	13027HQ
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PIST HEL(12)	13021QT	PIST HEL(12)	1302586	PIST HEL(12)	13025GA	PIST HEL(12)	1302715	PIST HEL(12)	13027JE	PIST HEL(12)	13027JE
PIST HEL(12)	13021QY	PIST HEL(12)	1302589	PIST HEL(12)	13025GC	PIST HEL(12)	1302727	PIST HEL(12)	13027JF	PIST HEL(12)	13027JF
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PIST HEL(12)	13021RC	PIST HEL(12)	1302592	PIST HEL(12)	13025GG	PIST HEL(12)	1302747	PIST HEL(12)	13027JK	PIST HEL(12)	13027JK
PIST HEL(12)	13021RE	PIST HEL(12)	1302598	PIST HEL(12)	13025GK	PIST HEL(12)	1302751	PIST HEL(12)	13027JL	PIST HEL(12)	13027JL
PIST HEL(12)	13021RP	PIST HEL(12)	13025AC	PIST HEL(12)	13025GL	PIST HEL(12)	1302762	PIST HEL(12)	13027JP	PIST HEL(12)	13027JP
PIST HEL(12)	13021RW	PIST HEL(12)	13025AE	PIST HEL(12)	13025GN	PIST HEL(12)					

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AIRCRAFT GROUP NAME
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
PIST HEL(12)	13027JZ	PIST HEL(12)	4360801	PIST HEL(12)	8930107	RKHELLNA265	6402612	SNIAS350	8680950
PIST HEL(12)	13027KF	PIST HEL(12)	4361001	PIST HEL(12)	9420102	RKHELLNA265	6402614	SNIAS350	8680951
PIST HEL(12)	13027KQ	PIST HEL(12)	4361101	PIST HEL(12)	95708CL	RKHELLNA265	6402618	SNIAS350	8680955
PIST HEL(12)	13027KS	PIST HEL(12)	4361301	PIST HEL(12)	95708DD	RKHELLNA265	7630101	SOCATATB10	8680696
PIST HEL(12)	13027KY	PIST HEL(12)	4361501	PIST OTHR(5)	0350406	RKHELLNA265	7630104	SOCATATB20	8680695
PIST HEL(12)	13027LA	PIST HEL(12)	4362305	PIST OTHR(5)	056132G	RKHELLNA265	7630106	SOCATATB20	8680697
PIST HEL(12)	13027LB	PIST HEL(12)	4362402	PIST OTHR(5)	1380202	RKHELLNA265	7630107	SOCATATB20	8680750
PIST HEL(12)	13027LD	PIST HEL(12)	4800702	PIST OTHR(5)	1380203	RKHELLNA265	7630108	STNSON10	8632002
PIST HEL(12)	13027LG	PIST HEL(12)	4800708	PIST OTHR(5)	1380204	RKHELLNA265	7630704	STNSON10	8632004
PIST HEL(12)	13027LK	PIST HEL(12)	4800802	PIST OTHR(5)	1520203	ROBSINR22	7640102	STNSON10	8632102
PIST HEL(12)	13027LL	PIST HEL(12)	4800805	PIST OTHR(5)	1520208	ROBSINR22	7640104	STNSON10	8632104
PIST HEL(12)	13027LM	PIST HEL(12)	4850112	PIST OTHR(5)	2420804	ROBSINR22	7640110	STNSONL5	8630202
PIST HEL(12)	13027LN	PIST HEL(12)	5500604	PIST OTHR(5)	2421102	ROBSINR22	7640115	STNSONL5	8630203
PIST HEL(12)	13027LR	PIST HEL(12)	5500605	PIST OTHR(5)	2422105	SCHZERG164	3952704	STNSONL5	8630204
PIST HEL(12)	13027LT	PIST HEL(12)	6980320	PIST OTHR(5)	2800503	SCHZERG164	3952801	STNSONL5	8630206
PIST HEL(12)	13027LV	PIST HEL(12)	7180902	PIST OTHR(5)	2800506	SCHZERG164	3960201	STNSONL5	8630210
PIST HEL(12)	13027LW	PIST HEL(12)	7640120	PIST OTHR(5)	2800508	SCHZERG164	3960202	STNSONL5	8630212
PIST HEL(12)	13027MA	PIST HEL(12)	8059500	PIST OTHR(5)	3021506	SCHZERG164	3960203	STNSONL5	8630213
PIST HEL(12)	13027MC	PIST HEL(12)	8059503	PIST OTHR(5)	3021510	SCHZERG164	3979904	STNSONL5	8630214
PIST HEL(12)	13027MD	PIST HEL(12)	8140102	PIST OTHR(5)	3021516	SCHZERG164	3979908	STNSONL5	8630216
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PIST HEL(12)	1302819	PIST HEL(12)	8141604	PIST OTHR(5)	3021534	SKRSKY558	8141808	STOLAMRC3	3080202
PIST HEL(12)	1302821	PIST HEL(12)	8141606	PIST OTHR(5)	3021536	SKRSKY558	8141811	STOLAMRC3	3080203
PIST HEL(12)	1304406	PIST HEL(12)	8141608	PIST OTHR(5)	3021706	SKRSKY558	8141814	STOLAMRC3	3080204
PIST HEL(12)	1440602	PIST HEL(12)	8141608	PIST OTHR(5)	3021712	SKRSKY558	8141815	STOLAMRC3	3080206
PIST HEL(12)	2390101	PIST HEL(12)	8141610	PIST OTHR(5)	3372220	SKRSKY558	8141821	SWRNGNSA226	3377514
PIST HEL(12)	2390202	PIST HEL(12)	8141612	PIST OTHR(5)	3590102	SKRSKY558	8141839	SWRNGNSA226	3377515
PIST HEL(12)	2390204	PIST HEL(12)	8141614	PIST OTHR(5)	3590104	SKRSKY576	8143006	SWRNGNSA226	8780122
PIST HEL(12)	2390205	PIST HEL(12)	8141616	PIST OTHR(5)	5262003	SKRSKY576	8143007	SWRNGNSA226	8780405
PIST HEL(12)	2390301	PIST HEL(12)	8141617	PIST OTHR(5)	5262104	SKRSKY576	8143008	SWRNGNSA226	8780406
PIST HEL(12)	2390302	PIST HEL(12)	8141618	PIST OTHR(5)	5262118	SKRSKY576	8143010	SWRNGNSA226	3377516
PIST HEL(12)	2390304	PIST HEL(12)	814161J	PIST OTHR(5)	5262121	SLINDS100	0140202	SWRNGNSA226	8780404
PIST HEL(12)	3027376	PIST HEL(12)	814161G	PIST OTHR(5)	5262135	SLINDS100	0140203	SWRNGNSA226	3377511
PIST HEL(12)	3740000	PIST HEL(12)	814161J	PIST OTHR(5)	5262121	SLINDS100	0140208	SWRNGNSA226	3377510
PIST HEL(12)	4360109	PIST HEL(12)	8141810	PIST OTHR(5)	5262140	SNIAS350	8680800	SWRNGNSA227	3377509
PIST HEL(12)	4360111	PIST HEL(12)	8141813	PIST OTHR(5)	5262511	SNIAS350	8680801	SWRNGNSA227	8780603
PIST HEL(12)	4360123	PIST HEL(12)	8141817	PIST OTHR(5)	8100102	SNIAS350	8680802	SWRNGNSA227	8780610
PIST HEL(12)	4360135	PIST HEL(12)	8141819	PIST OTHR(5)	8100525	SNIAS350	8680803	SWRNGNSA227	8780620
PIST HEL(12)	4360136	PIST HEL(12)	8141823	PIST OTHR(5)	8630901	SNIAS350	8680811	SWRNGNSA26	8780102
PIST HEL(12)	4360702	PIST HEL(12)	8142302	PIST OTHR(5)	8630904	SNIAS350	8680813	SWRNGNSA26	8780112
PIST HEL(12)	4360704	PIST HEL(12)	8142801	RKHELLNA265	6402608	SNIAS350	8680817	TCRAFT	8850402

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AIRCRAFT GROUP NAME
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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
TCRAFTD	8850404	TJT OTHR(11)	05618F9	TJT OTHR(11)	5400109	UNIVAR108	9230408	WACO	9600301
TCRAFTD	8850408	TJT OTHR(11)	05618NU	TJT OTHR(11)	6401702	UNIVAR108	9230412	WACO	9600302
TCRAFTD	8850409	TJT OTHR(11)	05618YS	TJT OTHR(11)	6401728	UNIVAR108	9230414	WACO	9600306
TCRAFTD	8850410	TJT OTHR(11)	056202V	TJT OTHR(11)	6401805	UNIVAR108	9230416	WACO	9600308
TCRAFTD	8850411	TJT OTHR(11)	056227R	TJT OTHR(11)	6401808	UNIVAR108	9230418	WACO	9600340
TCRAFTD	8850412	TJT OTHR(11)	05623P4	TJT OTHR(11)	6401810	UNIVAR415	0420104	WACO	9600404
TCRAFTD	8850413	TJT OTHR(11)	0564310	TJT OTHR(11)	6401814	UNIVAR415	0420202	WACO	9600408
TCRAFTD	8850414	TJT OTHR(11)	0566901	TJT OTHR(11)	7450002	UNIVAR415	0420204	WACO	9600409
TCRAFTD	8850416	TJT OTHR(11)	1384003	TJT OTHR(11)	7450003	UNIVAR415	0420302	WACO	9600410
TCRAFTD	8850420	TJT OTHR(11)	1384008	TJT OTHR(11)	7570602	UNIVAR415	0420304	WACO	9600411
TCRAFTD	8850448	TJT OTHR(11)	1384017	TJT OTHR(11)	7570622	UNIVAR415	0420306	WACO	9600412
TCRAFTD	8850904	TJT OTHR(11)	138408H	TJT OTHR(11)	7570623	UNIVAR415	0420308	WACO	9600416
TCRAFTBC	8850302	TJT OTHR(11)	1384816	TURB OTHR(9)	1382722	UNIVAR415	0420310	WACO	9600422
TCRAFTBC	8850304	TJT OTHR(11)	1384871	TURB OTHR(9)	1900102	UNIVAR415	0420312	WACO	9600650
TCRAFTBC	8850306	TJT OTHR(11)	1900812	TURB OTHR(9)	3021602	UNIVAR415	0420314	WACO	9600702
TCRAFTBC	8850308	TJT OTHR(11)	2423102	TURB OTHR(9)	5260103	UNIVAR415	0420316	WACO	9600703
TCRAFTBC	8850310	TJT OTHR(11)	2423202	TURB OTHR(9)	5262502	UNIVAR415	0420318	WACO	9601101
TCRAFTBC	8850314	TJT OTHR(11)	2423302	TURB OTHR(9)	5262505	UNIVAR415	0420320	WACO	9601102
TCRAFTBC	8850316	TJT OTHR(11)	2800308	TURB OTHR(9)	5262512	UNIVAR415	0420322	WACO	9601202
TCRAFTBC	8850317	TJT OTHR(11)	3021008	TURB OTHR(9)	5262604	UNIVAR415	0420324	WACO	9601206
TCRAFTBC	8850318	TJT OTHR(11)	3021906	TURB OTHR(9)	5262605	UNIVAR415	0420326	WACO	9601208
TCRAFTBC	8850320	TJT OTHR(11)	3021927	TURB OTHR(9)	5264102	UNIVAR415	0420328	WACO	9601209
TCRAFTBC	8850322	TJT OTHR(11)	3021998	TURB OTHR(9)	5264104	UNIVAR415	0420330	WACO	9601210
TCRAFTBC	8850323	TJT OTHR(11)	3022110	TURB OTHR(9)	526411G	UNIVAR415	0420332	WACO	9601212
TCRAFTBC	8850324	TJT OTHR(11)	3570100	TURB OTHR(9)	526413U	UNIVAR415	0420334	WACO	9601214
TCRAFTBC	9230916	TJT OTHR(11)	3570101	TURB OTHR(9)	526414Y	UNIVAR415	0420336	WACO	9601215
TCRAFTBC	9230920	TJT OTHR(11)	4220123	TURB OTHR(9)	526414X	UNIVAR415	0420402	WACO	9601302
TCRAFTBC	9230924	TJT OTHR(11)	4230307	TURB OTHR(9)	526414Y	UNIVAR415	0420502	WACO	9601304
TCRAFTBC	9230928	TJT OTHR(11)	4230308	TURB OTHR(9)	526414Z	UNIVAR415	0420504	WACO	9601504
TCRAFTBL	8850346	TJT OTHR(11)	5260400	TURB OTHR(9)	5269902	UNIVAR415	0420702	WACO	9601602
TCRAFTBL	8850350	TJT OTHR(11)	5260401	TURB OTHR(9)	9470200	UNIVAR415	0420722	WACO	9601604
TCRAFTBL	8850351	TJT OTHR(11)	5260402	TURB OTHR(9)	9470402	UNIVAR415	0540102	WACO	9601606
TCRAFTBL	8850354	TJT OTHR(11)	5260403	TURB OTHR(9)	9470403	UNIVAR415	0540104	WACO	9601610
TCRAFTBL	8850356	TJT OTHR(11)	5260405	TURB OTHR(9)	9470404	UNIVAR415	5872014	WACO	9601610
TH55	4471002	TJT OTHR(11)	5260407	TURB OTHR(9)	95708EA	UNIVAR415	5872018	WACO	9602202
TJT OTHR(11)	056129C	TJT OTHR(11)	5260410	UNIVACGC1	9230102	UNIVAR415	5872018	WACO	9602404
TJT OTHR(11)	056130G	TJT OTHR(11)	5260411	UNIVACGC1	9230104	VARGA2150	5940202	WACO	9602504
TJT OTHR(11)	056163Q	TJT OTHR(11)	5260413	UNIVACGC1	9230106	VARGA2150	5940204	WACO	9600504
TJT OTHR(11)	0561694	TJT OTHR(11)	5260416	UNIVACGC1	9230110	VARGA2150	5940302	WACO	9600508
TJT OTHR(11)	05616F8	TJT OTHR(11)	5260417	UNIVACGC1	9230112	VARGA2150	9350102	WACO	9600510
TJT OTHR(11)	05616G	TJT OTHR(11)	5264504	UNIVAR108	9230402	WACO	2240101	WACO	9600602
TJT OTHR(11)	056185D	TJT OTHR(11)	5265010	UNIVAR108	9230404	WACO	9600102	WACO	9600604
TJT OTHR(11)	056185R	TJT OTHR(11)	5270102	UNIVAR108	9230406	WACO	9600202	WACO	9600608

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AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE	AIRCRAFT NAME	FAA CODE
WACO	9600609						
WACO	9600610						
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WACO	9600910						
WACO	9601402						
WACO	9601404						
WACO	9602405						
WTHRLY201	9630404						
WTHRLY201	9630406						
WTHRLY201	9630408						
WTHRLY201	9630410						

APPENDIX C

ENGINE GROUP NAME - FAA MANUFACTURER/MODEL CODES

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FAA MANUFACTURER/MODEL CODES

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ENG. NAME	FAA CODE	ENG. NAME	FAA CODE	ENG. NAME	FAA CODE	ENG. NAME	FAA CODE
ALLSN 250B	03003	FRKLN4AC171	27005	LYC 0145	41502	PHA R1690	52001
ALLSN 250C	03012	FRKLN4AC176	27006	LYC 0145	41503	PHA R1830	52020
ALLSN 250C	03002	FRKLN4AC176	27007	LYC 0235	41505	PHA R2000	52023
ALLSN 250C	03013	FRKLN4AC199	27008	LYC 0290	41506	PHA R2800	52026
ALLSN 501D	03004	FRKLN4AC199	27009	LYC 0320	41508	PHA R4360	52027
ALLSN 501D	03006	FRKLN4AC199	27010	LYC 0320	41509	PHA R985	52006
AMTR 430	19050	FRKLN6A4150	27024	LYC 0340	41510	PHA R985	52007
AMTRMCCULH	42501	FRKLN6A4165	27025	LYC 0360	41514	PHA R985	52008
ARSRCHTPE331	01502	FRKLN6A4200	27027	LYC 0360	41515	PHA T34	52055
ARSRCHTSE331	01505	FRKLN6A8215	27030	LYC 0435	41516	ROTAX 277	55555
BRSDLYGIPSY	20003	FRKLN6AG4	27026	LYC 0435	41523	RRROYCEAVON	54514
CONT 6285	17038	FRKLN6AV335	27020	LYC 0480	41527	RRROYCEAVON	54517
CONT 975	17037	FRKLN6AV335	27040	LYC 0480	41529	RRROYCEDART	54504
CONT A40	17001	FRKLN6AV350	27043	LYC 0540	41532	RRROYCEDART	54507
CONT A50	17002	FRKLN6V4	27033	LYC 0540	41533	RRROYCEDART	54509
CONT A65	17003	FRKLN6V6245	27036	LYC 0540	41534	RRROYCEDART	54513
CONT A75	17005	GARRTTATEF3	29002	LYC 0541	41536	RRROYCEGIPSY	20005
CONT A80	17006	GARRTTTFE731	01518	LYC 0541	41539	RRROYCEGIPSY	20006
CONT C125	17011	GARRTTPE331	01514	LYC 0720	41546	RRROYCEGIPSY	20007
CONT C145	17012	GE CF34	30015	LYC R680	41540	RRROYCEGRIF	54501
CONT C85	17008	GE CF6	30018	LYC T53	41549	RRROYCEOLMPS	54570
CONT C90	17009	GE CF700	30010	LYC T55	41555	RRROYCER8211	54555
CONT E165	17013	GE CJ610	30002	MNASCO4	43504	RRROYCESPEY	54519
CONT E185	17014	GE CJ610	30006	NO ENG TYPE	99999	RRROYCESPEY	54523
CONT E225	17015	GE CT58	30008	ONAN 18HP	47850	RRROYCEVIPER	54550
CONT O200	17020	GE CT58	30011	PCKARDV1650	49001	RRROYCEVIPER	54551
CONT O300	17022	GE CT7TP	30030	PIGMAN5	37002	RRROYCEVIPER	54552
CONT O366	17033	GE TC7TS	30029	PORSCH6784	51001	TMECA ARTEL	60030
CONT O360	17025	GLADENB5	37501	PHA JFTD12	52047	TMECA ARTST2	60002
CONT O470	17026	GLADENK5	37503	PHA JT12	52042	TMECA ARTST3	60003
CONT O520	17032	GLADENR5	37504	PHA JT15	52060	TMECA ART14	60014
CONT O520	17040	GULF R670	31701	PHA JT15	52112	TMECA AST18	60020
CONT O526	17030	JACOBPR755	35006	PHA JT8	52044	TMECA AST2	60005
CONT R670	17016	JACOBPR755	35007	PHA JT8	52046	TMECA AST2T	60006
DHAVXXGIPSY	20004	JACOBPR755	35008	PHA JT8	52048	TMECA AST3T	60007
ENWA GIV	22000	JACOBPR755	35003	PHA JT8	52053	TMECA BASTAN	60009
FCD 6410	26002	JACOBPR915	35005	PHA PT6	52043	TMECA MAKILA	60040
FCD 6440	26003	LIMBAH1700	38602	PHA PT6	61501	TMECA MARBOR	60004
FRKLN4A235	27011	LYC AL5512	41581	PHA PT6	61504	WARNER165	64504
FRKLN4AC150	27002	LYC ALF502	41580	PHA PT6	61506	WARNER185	64505
FRKLN4AC150	27003	LYC LTP101	41565	PHA PT6T	52045	WRIGHTJ5	67007
FRKLN4AC150	27004	LYC LTS101	41560	PHA PT6T	61502	WRIGHTOX5	67002
		LYC 0145	41501	PHA R1340	52016	WRIGHTR1300	67060

APPENDIX C

ENGINE GROUP NAME
FAA MANUFACTURER/MODEL CODES

PAGE 2 OF 2

ENG. NAME	FAA CODE	ENG. NAME	FAA CODE	ENG. NAME	FAA CODE
WRIGHTR1820	67020				
WRIGHTR2600	67050				
WRIGHTR3350	67037				
WRIGHTR3350	67038				
WRIGHTR3350	67040				
WRIGHTR760	67009				
WRIGHTR760	67010				
WRIGHTR760	67011				
WRIGHTR975	67012				
WRIGHTR975	67015				
WSK PZL	67203				
WSK PZL	67204				
XENOAHG72	72000				

APPENDIX D

COMMON ACRONYMS AND GLOSSARY

APPENDIX D

COMMON ACRONYNS AND GLOSSARY

COMMON ACRONYMS

ADF	-	Automatic Direction Finder
APO	-	Office of Aviation Policy, Plans, and Management Analysis
CG	-	Capability Groups
DME	-	Distance Measuring Equipment
DVFR	-	Day Visual Flight Rules
EFIS	-	Electronic Flight Information Systems
FAA	-	Federal Aviation Administration
FAR	-	Federal Aviation Regulations
GA	-	General Aviation
GAA	-	General Aviation Activity
GAAA	-	General Aviation Activity and Avionics
GAATAA	-	General Aviation and Air Taxi Activity and Avionics
GPS	-	Global Positioning System
GPWS	-	Ground Proximity Warning System
GS	-	Glide Slope
HSI	-	Horizontal Situation Indicators
IFR	-	Instrument Flight Rules
ILS	-	Instrument Landing System
IMC	-	Instrument Meteorological Conditions
LRNAV	-	Long Range Navigation Equipment
MLS	-	Microwave Landing System
MSL	-	Mean Sea Level
NAS	-	National Airspace System
RNAV	-	Area Navigation Equipment
PAR	-	Precision Approach Equipment
SDR	-	Service Difficulty Reporting
SFAR-38	-	Special Federal Aviation Regulation 38

TCA	-	Traffic Control Airport or Tower Controlled Airport
TCAS	-	Traffic Alert and Collision Avoidance System
VFR	-	Visual Flight Rules
VHF	-	Very High Frequency
VMC	-	Visual Meteorological Conditions
VOR	-	Very High Frequency Omni-directional Radio Range

GLOSSARY

Active Aircraft--All legally registered civil aircraft which flew one or more hours.

Aerial Application--See Primary Use.

Aerial Observation--See Primary Use.

Air Carriers--The commercial system of air transportation consisting of the certificated air carriers, air taxis (including commuters), supplemental air carriers, commercial operators of large aircraft, and air travel clubs.

Aircraft Type--A term used in this publication in grouping aircraft by basic configuration: fixed wing, rotorcraft, glider, dirigible, and balloon.

Air Taxi--See Primary Use.

Altitude Encoding--(Automatic Altitude Reporting)--An aircraft altitude transmitted via the Mode C transponder feature that is visually displayed in 100 feet increments on the ground radar scope having readout capability.

Area Navigation (RNAV)--A method of using navigation instruments that allows pilots flexibility to fly direct routes between waypoints or offset from published or established routes/airways at specified distance and direction.

Automatic Direction Finder (ADF)--An aircraft radio navigation system which senses and indicates the direction to a nondirectional radio beacon ground transmitter. Direction is indicated to the pilot as a magnetic bearing or as a relative bearing to the longitudinal axis of the aircraft.

Automatic Pilots--The roll, pitch, and yaw axis of an aircraft can be controlled by use of an automatic pilot. Information from VOR, ILS, MLS, and other navigation aids can be coupled to the automatic pilot for en route and approach flights.

Business Transportation--See Primary Use.

Commuter Air Carrier--See Primary Use.

Distance Measuring Equipment (DME)--Airborne and ground equipment used to measure, in nautical miles, the slant range distance of an aircraft from the DME navigational aid.

Executive/Corporate Transportation--See Primary Use.

General Aviation--That portion of civil aviation which encompasses all facets of aviation except air carriers.

Glide Slope--See Instrument Landing System.

Instructional Flying--See Primary Use.

Instrument Flight Rules (IFR)--Rules governing the procedures for conducting instrument flight. Also a term used by pilots and controllers to indicate type of flight plan.

Instrument Landing System (ILS)--A precision instrument approach system which normally consists of the following electronic and visual aids:

- o Localizer--Provides course guidance to the runway.
- o Glide Slope--Provides vertical guidance during approach.
- o Marker Beacon--Provides aural and/or visual identification of a specific position along an instrument approach landing.

Localizer--See Instrument Landing System.

Long Range Navigation (LRNAV)--A method of navigation that permits navigation over long distances. This is in contrast to the relatively short range navigation provided by the VOR system.

Marker Beacon--See Instrument Landing System.

Microwave Landing System (MLS)--An instrument landing system operating in the microwave spectrum which provides lateral and vertical guidance to aircraft having compatible avionics equipment.

Other--See Primary Use.

Other Work Use--See Primary Use.

Personal/Recreation Flying--See Primary Use.

Primary Use--The use category in which an aircraft flew the most hours. The eleven use categories are defined below:

- o Aerial Application--Agriculture, health, forestry, cloud seeding, firefighting, insect control.
- o Aerial Observation--Aerial mapping/photography, survey, patrol, fish spotting, search and rescue, hunting, highway traffic advisory, sightseeing (not FAR Part 135).
- o Air Taxi--FAR Part 135 passenger and cargo operations, excluding commuter air carrier.
- o Business Transportation--Individual use of an aircraft for business transportation.
- o Commuter Air Carrier--Performs, under FAR Part 135, at least five scheduled round trips per week or carries mail.
- o Executive/Corporate Transportation--Company flying with a professional crew.

- o **Instructional**--Flying under the supervision of a flight instructor (excludes proficiency flying).
- o **Other**--Experimentation, R&D, testing, government demonstrations, air shows, air racing.
- o **Other Work Use**--Construction work (not FAR Part 135), helicopter hoist, parachuting, aerial advertising, towing gliders.
- o **Personal/Recreation**--Flying for personal reasons (excludes business transportation).

Radar Altimeter--Aircraft instrument that makes use of the reflection of radio waves from the ground to determine the height of the aircraft above the surface.

Registered Aircraft--Aircraft registered with the Federal Aviation Administration.

RNAV--See Area Navigation.

Transponder--The airborne radar beacon receiver/transmitter portion of the Air Traffic Control Beacon System that automatically receives radio signals from interrogators on the ground and selectively replaces with specific reply pulse-on-pulse group only those interrogations being received on the mode to which it is set to respond. Each aircraft transponder is capable of replying to 4,096 codes as selected by the pilot. Provides the air traffic controller positive location and, in some cases, altitude information.

VFR Flight--Flight conducted in accordance with Visual Flight Rules.

VHF Communications--Provides radio voice communications between aircraft and ground stations, also between aircraft. Very High Frequency (VHF) is limited in angle (line of sight) and usually used for air traffic communications.

VOR--Very high frequency omnidirectional radio range. Used as the basis for navigation in the National Airspace System.

Weather Radar--Provides the flight crew with visual display of weather that could contain turbulence. The system's primary function is to assist in turbulence avoidance, although most airborne radar systems are also capable of terrain mapping.